Honeywell

Lists of I/O Devices and other Tables

WINMAG plus / WINMAG Lite
Item No. 013610/013635

PC Control Software
for Windows 2003 / Windows XP prof.
Windows Vista

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Introduction

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1. I/O device types

The defined I/O types supplied are included in the WINMAG database “WINMAG.MDB” in the following lists:
I/O device types=Name, ID, priority, state/line allocation, family
Defines =State with name, function values and alarm reasons

In the I/O device types list, the following items are allocated to an I/O device:
- an internal ID
- a name
- a necessary control priority for the user
- a “defines” sentence per ID for every state
  incl. state name, functional values , alarm reason for every function value
- a family ID

I/O point types are adapted to suit requirements in WINMAG in the system configuration using the “Edit I/O point types” function.
Unique types can be created as a copy of system types supplied.

Abstract of the list of I/O device types:

ID	Familien_Id	Meldepunkttypen_Name	Priorität
0	0	Variable	1000
300000001	300000001	IGIS-Network	5000
300000004	300000001	LAN Loop Net	5000
300000003	300000001	Network	5000
300000002	300000002	Network member	5000
300000050	300000050	Calendar	1000
300000051	300000051	Time process	1000
300000052	300000052	no action	5000
300000054	300000053	Variable switch	100
300000053	300000053	Variables	100
387654321	387654321	Camera special	1000

2 I/O devicetype lists

2.1 Connection of a FDC-664/616 to the IGIS network
2.2 Connection of a FDC-1016 to the IGIS network
2.3 Connection of a FDC-1024 to the IGIS network
2.4 Connection of the control unit 561-MB100/MB16/MB8/HB48 to the IGIS network
2.5 Connection of the control unit 561-MB100.10 / MB48 to the IGIS-network
2.6 Connection of the control unit EMC 561-MB256 to the IGIS network
2.7 Connection of the control unit EMC 561-MB256
2.8 Connection of the control unit 561-M99 to the IGIS network
2.9 I/O device definition for MultiAccess
2.10 I/O device definition for Video connection Honeywell
2.11 I/O device definition for Visioprime-Remotemanager
2.12 I/O device definition for Video connection Videv, Ernitec, Phillips
2.13 I/O device definition for Video connection Vicrosoft
2.14 I/O device definition for Geutebrück Multiscope-connection
2.15 I/O device definition for Geutebrück Multiview-connection
2.16 I/O definition for Dallmeier-PView-connection
2.17 I/O device definition for rescue routes
2.18 I/O device definition Esser 5008 Essernet
2.19 I/O device definition for Esser 800x Essernet
2.20 I/O device definition for OPC-Client
2.21 Signal point definition for DEZ

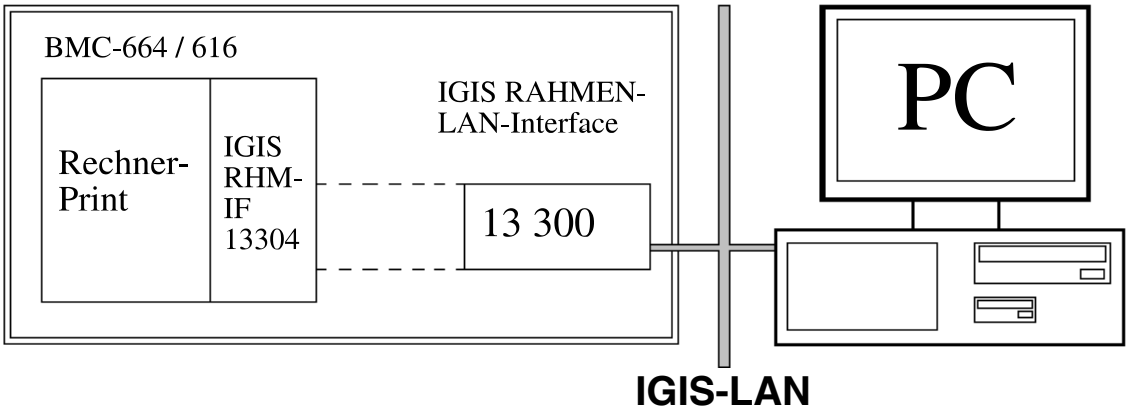
General: The sample circuit in the diagram usually contains the IGIS interface -> either switch to IGIS-Loop or remove completely.

The following I/O device lists contain the terms used in GEMAG.
These terms correspond to the WINMAG terms.
The only difference is the admissible length of the terms.

	WINMAG	GEMAG
Type-Name	**40 characters**	**8 characters**
State	**40 characters**	**20 characters**
Function-value	**40 characters**	**20 characters**

2.1 Connection of a FDC-664/616 to the IGIS network

1. Basic system configurations



2. Communication via IGIS network

The description “Connecting IGIS terminals to the IGIS network” contains more information on communication via the IGIS network.

3. Access code

The 3-digit password of the FDC 664/616 is used as access code. Only 3 digits of the access code are evaluated.

If no password is saved in the FDC664/616, the access code is not checked when the command INIT_MP is used.

I/O device definition for FDC 664/616

For the FDC 616 only those I/O devices are valid that are also implemented in the central unit.
The following conditions must be fulfilled:

Number of groups : 16
Number of plug-in cards : 2
No. of channels ext. drive: 1
No. of fire fighting control

1. General I/O devices

I/o device-		Input states/ Output states	Function value-	
Number	Name		No.	Name
1	acoustic	IS 0 situation	0 1	on off
		IS 1 trouble	0 1	off on
		IS 2 *1) siren	0 1	off on
		OS 0 switch	0 1	off on
2	safe for key	IS 0 tamper	0 1	no yes
		IS 1 trouble coil	0 1	off on
		IS 2 *1) door	0 1	locked released
3	energy supply	IS 0 AC	0 1	ok trouble
		IS 1	0 1	ok trouble
		IS 2 fuse	0 1	ok trouble

*1) available for program version V12.00 and later

I/O type:
1 Acoustic FDC (300066401)
2 Key safe (300066402)
3 Energy supply FDC (300066403)

4	transmission unit	IS 0 situation transmission	0 1 2	on 3) off not present
		IS 1 transmission manual detector	0 1 2	- active trouble
		IS 2 transmission automatic det.	0 1 2	- active trouble
		IS 3 transmission	0 1 2	- active trouble
		IS 4 fuse	0 1	ok trouble
		IS 5 respond	0 1	missing yes
		OS 0 switch	0 1	off on
5	phone	IS 0 closed circuit	0 1	closed open
		IS 1 fuse	0 1	ok trouble

If the " transmission unit " switch is set to "ON", the transmission unit can be switched on/off for every detector group.

If the switch is set to “OFF”, transmission units are switched off for all groups.

I/O type: 4 Transmission FDC (300066404)
5 Telephone connection FDC (300066405)

2. Detector groups (up to 64 in FDC664, up to 16 in FDC616)

I/O device-		Input states/ Output states	Function value-	
No.	Name		No.	Name
6	group1	IS 0 situation	0 1 2	not existing off on
		IS 1 transmission- selected	0 1 2	on off immediately on
		IS 2 error	0 1 2 3	off pollution SDN short circuit line rupture
		IS 3 alarm	0 1 2 3 4 5 6	off manual automatic group 1 from 2 group 2 from 2 repeat 1 from 2 repeat 2 from 2
		OS 0 switch	0 1	off on
O O O O				
69	group 64	IS 0 situation	0 1 2	not existing off on
		IS 1 transmission selected	0 1 2	on off immediately on
		IS 2 error	0 1 2 3	off pollution SDN short circuit line rupture
		IS 3 alarm	0 1 2 3 ...	off manual automatic group 1 from 2 ...
		OS 0	...	...

I/O type: 6-69 Fire group FDC616/664 (300066406)

3. Detectors (8 interface cards possible in FDC664, 2 interface cards possible in FDC616)

I/O device-		Input states/ Output states	Function value-	
No.	Name		No.	Name
70	detector card 1 1	IS 0 situation	0 1 2	not existing off on
		IS 1 trouble	0 1 2 3 4	off pollution SDN missing short circuit line rupture
		IS 2 alarm	0 1 2 3 4 5 6	off manual automatic detector 1 from 2 detector 2 from 2 repeat 1 from 2 repeat 2 from 2
		IS 3 diagnostic	0 1	ok warning
		IS 4 *1) group digit 2	0-9	0 - 9
		IS 5 *1) group digit 1	0-9	0 - 9
		OS 0 switch	0 1	off on
71	detector card 2 1	IS 0 STATE	0 1 2	not existing off on
O O O O				
196	detector card 1 127	IS 0 state	0 1 2	not existing off on
197	detector card 2 1	IS 0 state	0 1 2	not existing off on

*1) available with Eprom version V12.00 and later

I/O deviceNo. = F(n,m) = 70 + (n-1) x 127 + (m-1)
n = No. of card (1...8)
m = No. of detector connected to one card (1...127)

4. Control pad

I/O device- No.	I/O device- Name	Input states/ Output states	Function value- No.	Function value- Name
1086	control pad	OS 0 alarm	0 1 2	stop reset stop extern acoustic
		OS 1 Diagnostic	0 1	start stop
		IS 0 diagnostic	0 1 2 3	ok warning stopped started
		IS 1 *1) trouble	0 1	no yes
		IS 2 *1) alarm	0 1	no alarm alarm
		IS 3 *1) deactivation	0 1	no yes
		IS 4 *1) fire brigade alarmed	0 1	no yes
		IS 5 *1) LED call fire	0 1	off on
1087	alarm delay	IS 0 switch	0 1	off on
		IS 1 *1) alarm delay time	0 1	off running
		IS 2 *1) exploring time	0 1	off running
		OS 0 switch	0 1	off on
10881089	reserved for extensions			

*1) available with eprom version V12.00 or later

I/O type: 1086 Control FDC (300066486)
1087 Alarm delay FDC (300066487)

5. Output channels

5.1 Output channels fire control system (FCS) (not existing in FDC616)

I/O device-		Input states/ Output states	Function value-	
No.	Name		No.	Name
1090	output channel 1 (A)	IS 0 situation	0 1 2	not existing off on
		IS 1 switch	0 1	off on
		OS 0 switch	0 1	off on
1091	output channel 2 (A)	IS 0 situation	0 1 2	not existing off on
		IS 1 switch	0 1	off on
		OS 0 switch	0 1	off on
O O O O				
1105	output channel 16 (B)	IS 0 situation	0 1 2	not existing off on
		OS 0 switch	0 1	off on

I/O type: 1090-1097 Fire control output A
1098-1105 Fire control output B

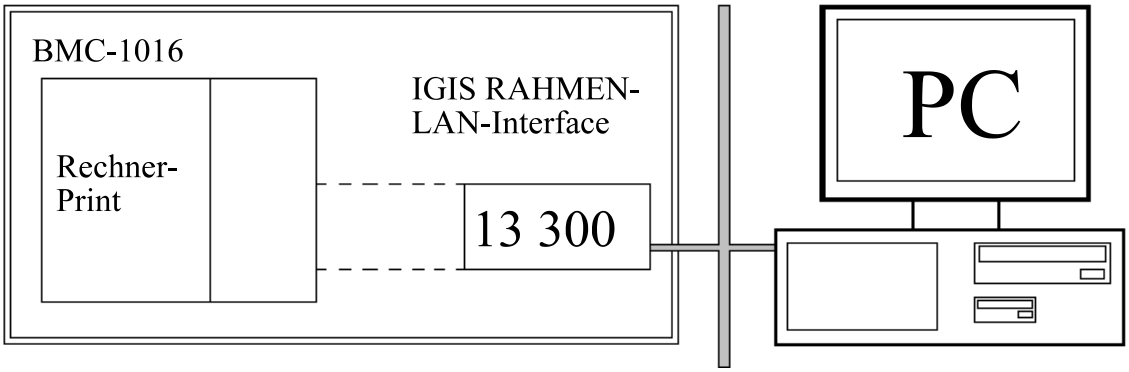
5.2 Output channels extinguisher control (not existing in FDC616)

I/O device-		Input states	Function value-	
No.	Name		No.	Name
1106	extinguisher control 1	IS 0 situation	0 1 2	not existing off on
		IS 1 trouble	0 1 2 3	off extinguisher system line rupture line short circuit
1107	extinguisher control 2	IS 0 situation	0 1 2	not existing off on
		IS 1 trouble	0 1 2 3	off extinguisher system line rupture line short circuit
1108	extinguisher control 3	IS 0 situation	0 1 2	not existing off on
		IS 1 trouble	0 1 2 3	off extinguisher system line rupture line short circuit
1109	extinguisher control 4	IS 0 situation	0 1 2	not existing off on
		IS 1 trouble	0 1 2 3	off extinguisher system line rupture line short circuit

I/O type: 1106-1109 Sprinkler output FDC (300066499)

2.2 Connection of a FDC-1016 to the IGIS network

1. Basic system configuration



IGIS-LAN

2. Communication with the IGIS network

The description "Connecting IGIS terminals to the IGIS network"" contains further information on communication via the IGIS network.

3. Access code
The 3-digit password of the FDC 1016 is used as access code. Only 3 digits of the access code are evaluated. Is no password is saved in the FDC 1016, the access code is not checked when the command INIT_MP is used.

4. General overview of I/O devices

I/O device number		I/O device name
from	to	
1		energy supply
2	3	general I/O devices
4	10	reserved for extensions
11		extinguisher interface
12		alarm signalling device
13	17	transmission unit
18	20	reserved for extensions
21	36	control unit
37	44	input channels
45	180	detector groups
181	307	User-card 1 (detectors / control modules)
308	434	User-card 2 (detector / control modules)
435	561	User-card 1 Allocation of detectors to group
562	688	User-card 2 Allocation of detectors to group

All I/O devices refer to the physical address of the periphery connected.

5. Overview of commands from IGIS-members in the IGIS network

The FDC 1016 supports following orders described in the document IGENDGER.W51

5.1 Receive commands

command	name
1	Init 1. block without following block
2	Init 1. block with following block
3	Init following block (last)
4	Init following block
5	control I/O device
6	time synchronisation
7	alternate aim address
8	Logout
9	query PNUM program number
0A	password
0B	SET_Filter
0C	Steuern_MP_Passw
0D	not supported
0	not supported
0F	not supported
10	not supported
11	not supported

5.2 Send commands

command	name
1	Init_Dat_MP with following blocks
2	Init_Dat_MP last data block
3	Neu_Dat_MP
4	acknowledgements
5	acknowledgement program number
6	PAR_RET compatibility-ID
7	not supported
8	time synchronisation
9	not supported

6. General I/O devices and control pads

I/O device-		Input states / Output states	Function value-	
No.	Name		No.	Name
1	energy supply FDC 1016	IS 0 AC	0 1	ok trouble
		IS 1	0 1	ok trouble
		IS 2 fuse	0 1	ok trouble
2	control pad	OS 0 alarm	0 1 2	stop reset stop extern acoustic
		OS 1 diagnostic	0 1	start stop
		IS 0 diagnostic	0 1 2 3	ok warning stopped started
3	summary display FDC1016	IS 0 trouble	0 1	no yes
		IS 1 alarm	0 1	no alarm alarm
		IS 2 deactivation	0 1	no yes
		IS 3 fire brigade alarmed	0 1	no yes
		IS 4 LED call fire brigade	0 1	off on
		IS 5 *) LED Revision	0 1	off on
4-10	reserve	reserved for extensions		

*) available with eprom version B1016.00.0V04.00 or later

I/O type:

1	Energy supply FDC1016 (300066403)
2	Control FDC1016 (300101602)
3	Summary display FDC1024 (300102412)
4-10	reserved for extensions

7. Output channels of the extinguisher interfaces (EI)

I/O device-		Input states	Function value-	
No.	Name		No.	Name
11	extinguisher interface	IS 0 situation	0 1 2	not existing off on
		IS 1 trouble	0 1 2 3	off extinguisher system line rupture line short circuit

I/O type: 11 Sprinkler output FDC (300066499)

8. Output channels of the alarm signalling devices (ASD)

I/O device-		Input states / Output states	Function value-	
No.	Name		No.	Name
12	acoustic	IS 0 state	0 1 2	not existing switched off on
		IS 1 error	0 1	off short circuit or rupture
		IS 2 message	0 1	output not active output active
		OS 0 switch	0 1	off on

I/O type: 12 Acoustic FDC1016 (300101612)

9. Output channels of the transmission unit (UE)

I/O device-		Input states / Output states	Function value-	
No.	Name		No.	Name
13	transmission unit (UE)	IS 0 situation automatic output	0 1 2	not present off on
		IS 1 transmission automatic output	0 1 2	not activated active interruption or shortcut
		IS 2 situation manual output	0 1 2	not present off on
		IS 3 transmission manual output	0 1 2	not activated active interruption or shortcut
		IS 4 situation trouble	0 1 2	not present off on
		IS 5 transmission trouble	0 1 2	not activated active interruption or shortcut
		OS 0 switch	0 1	off on
14	transmission unit 2 (UE)	IS 0 UE 12V	0 1	ok error
		IS 1 response alarm	0 1	missing existing
15	key safe (FSD)	IS 0 door	0 1 2	not present locked released
		IS 1 sabotage	0 1	ok line rupture or short circuit
		IS 2 trouble coil	0 1	off on
16	alarm delay	IS 0 switch	0 1	off on
		IS 1 alarm delay time	0 1	off running
		IS 2 exploring time	0 1	off running
		OS 0 switch	0 1	off on
17	phone (TA)	IS 0 closed circuit	0 1	closed open
		IS 1 fuse	0 1	ok trouble
18-20	reserved	reserved for extensions		

I/O type:

13 Transmission FDC1016 (300101613)
14 Transmission 2 FDC1016 (300101614)
15 Key safe 1016 (300101615)
16 Alarm delay FDC (300066487)
17 Telephone connection FDC (300066405)
18-20 reserved for extensions

10. Fire control output (SE)

I/O device-		Input states / Output states	Function value-	
No.	Name		No.	Name
21	output channel 1	IS 0 message	0 1 2	not existing output not active output active
		IS 1 error	0 1	off short circuit or rupture
		IS 2 state	0 1	on 1) off 1)
		OS 0 switch	0 1	off on
		OS 1 activate	0 1	not active active
22	output channel 2	IS 0 message	0 1 2	not existing output not active output active
		O O O O		
36	output channel 16	IS 0 message	0 1 2	not existing output not active output active
		IS 1 error	0 1	off short circuit or rupture
		IS 2 state	0 1	on 1) off 1)
		OS 0 switch	0 1	off on
		OS 1 activate	0 1	not active active

1) with Eprom version B1016.00.0V02.00 or later

I/O type: 21-36 Fire control output FDC1016 (300101621)

11. Input channel (IN)

I/O device-		Input states / Output states	Function value-	
No.	Name		No.	Name
37	input channel 1	IS 0 situation	0 1 2	not present off on
		IS 1 message	0 1	inactive active
		OS 0 switch	0 1	off on
38	input channel 2	IS 0 situation	0 1 2	not present off on
		IS 1 message	0 1	inactive active
		OS 0 switch	0 1	off on
		O O O O		
44	input channel 8	IS 0 situation	0 1 2	not present off on
		IS 1 message	0 1	inactive active
		OS 0 switch	0 1	off on

I/O type: 37-44 input FDC1024 (300102406)

12. Fire group FDC1016

I/O device- No.	Name	Input states / Output states	Function value- No.	Name
45	group 1	IS 0 situation	0 1 2	not present off on
		IS 1 transmission	0 1 2	on off immediately on
		IS 2 pollution	0 1	off pollution
		IS 3 alarm	0 1 2 3 4 5 6	off manual automatic group 1 from 2 group 2 from 2 stored 1 from 2 stored 2 from 2
		IS 4 trouble line	0 1 2 3 4	off short circuit broken RS-card malfunction 2) bus malfunction 2)
		IS 5 trouble member	0 1 2 3	off 1) members missing 1) members with error 1) limit power reached 1)
		OS 0 switch	0 1	off on
		O O O O		
180	group 136			
		OS 0 switch	0 1	off on

1) with Eprom version B1016.00.0V02.00 or later
2) with Eprom version. B1016.00.0V03.00 or later

45 - 52 Fire groups conventional (real number 1 - 8)
53 - 116 Fire groups RS-Bus card 1 (real number 9 - 72)
117 - 180 Fire groups RS-Bus card 2 (real number 73 - 136)

I/O type: Fire group FDC1016 (300101645)

13. Fire detector FDC 1016

13.1 Detector

I/O device- No.	I/O device- Name	Input states / Output states	Function value- No.	Function value- Name
181	card 1 user 1	IS 0 situation	0 1 2	not present off on
		IS 1 trouble member	0 1 2 3 4 5 6 7 8	off pollution SDN address missing detector head missing 1) ext. power missing 1) wrong type 1) member unknown 1) power limit reached 1) error 1)
		IS 2 alarm	0 1 2 3 4 5 6	off manual automatic detector 1 from 2 detector 2 from 2 stored 1 from 2 stored 2 from 2
		IS 3 diagnostic	0 1	ok warning
		IS 4 trouble line in front of member	0 1 2	off short circuit broken
		IS 5 trouble line behind member	0 1 2	off short circuit broken
		OS 0 switch	0 1	off on
182	card 1 user 2	IS 0 situation	0 1 2	not present off on
		...	...	...
		O O O O		
307	card 1 user 127	IS 0 situation	0 1 2	not present off on
		...	...	...
308	card 2 user 1	IS 0 situation	0 1 2	not present off on
		...	...	...
		O O O O		

434	card 2 user 2	IS 0 situation	0 1 2	not present off on
		...	...	...
		OS 0 switch	0 1	off on

1) with Eprom version B1016.00.0V02.00 or later

I/O type: 181-434 Fire detector FDC1016 (300101682)

I/O device number . = F(n,m) = 180 +((n-1) x 127) + m

n = number of interface card (1...2)
m = number of user (1...127)

13.2 Control module (alternative to 13.1)

I/O device-		Input states / Output states	Function value-	
No.	Name		No.	Name
181	card 1 user 1	IS 0 situation	0 1 2	not present off on
		IS 1 trouble member	0 1 2 3 4 5 6 7 8	off address missing ext power missing 1) wrong type 1) member unknown 1) power limit reached 1) error 1)
		IS 2	1	
		IS 3 release	0 1	switch unit not active switch unit active
		IS 4 trouble line in front of member	0 1 2	off short circuit broken
		IS 5 trouble line behind member	0 1 2	off short circuit broken
		OS 0 switch	0 1	off on
182	card 1 user 2	IS 0 situation	0 1 2	not present off on
		...	...	...
		O O O O		
307	card 1 user 127	IS 0 situation	0 1 2	not present off on
		...	...	...
		IS 5 trouble line	0 1 2	off short circuit broken
		OS 0 switch	0 1	off on
308	card 2 user 1	IS 0 situation	0 1 2	not present off on
		...	...	...
		O O O O		

434	card 2 user 127	IS 0 situation	0 1 2	not present off on
		...	...	...
		OS 0 switch	0 1	off on

1) with Eprom version. B1016.00.0V02.00 or later

I/O type: 181-434 Control module FDC1016 (300101682)

I/O device number . = F(n,m) = 180 +(n-1) x 127) + m

n = number of interface card (1...2)
m = number of user (1...127)

14. Allocation of the users to the groups

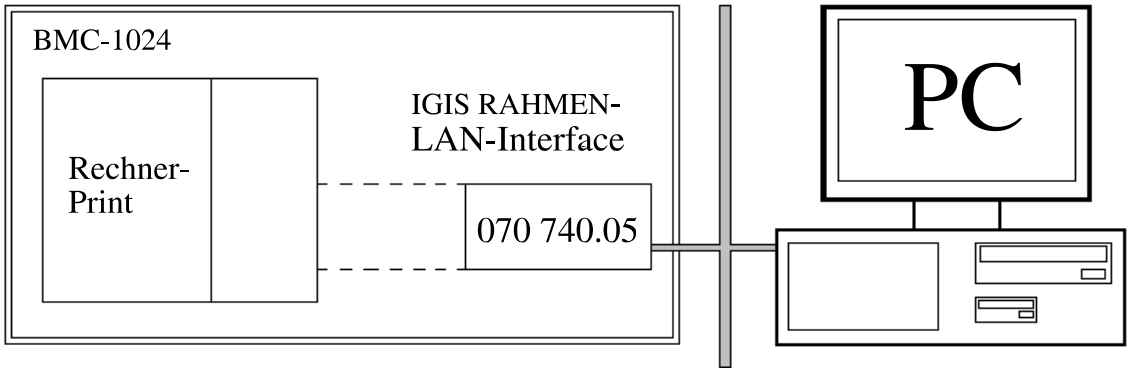
I/O device-		Input states	Function value-	
No.	Name		No.	Name
435	card 1 user 1	IS 0	0-9	group number (*100)
		IS 1	0-9	group number (*10)
		IS 2	0-9	group number (*1)
		O O O O		
561	card 1 user 127	IS 0	0-9	group number (*100)
		IS 1	0-9	group number (*10)
		IS 2	0-9	group number (*1)
562	card 2 user 1	IS 0	0-9	group number (*100)
		IS 1	0-9	group number (*10)
		IS 2	0-9	group number (*1)
		O O O O		
688	card 1 user 127	IS 0	0-9	group number (*100)
		IS 1	0-9	group number (*10)
		IS 2	0-9	group number (*1)

I/O device number = F(n,m) = 434 + ((n-1) x 127) + m

n = card number (1...2)
m = detector address on card (1...127)

2.3 Connection of a FDC-1024 to the IGIS network

1. Basic system configurations



IGIS-LAN

To connect a FDC-1024 to the IGIS-network the firmware version V03.00 or higher is necessary.

2. Communication via the IGIS network

The description "Connecting IGIS terminals to the IGIS network" contains further information on communication via the IGIS network.

3. Access code

The 8-digit password of the FDC 1024 is used as access code.

If no password is saved in the FDC 1024, the access code is not checked when the command INIT_MP is used.

4. General overview of the I/O device types

I/O device		I/O device name
from	to	
1	9999	detector group
10000	17619	user (detector / Control module)
17620	18579	control unit (SE-Module)
18580	19539	extinguisher interface (LS-Module)
19540	20499	alarm signaling device (AE)
20500	21459	input channels (IN-Module)
21460	21639	transmission device (UE)
21640	21699	I/O-Bus - equipping configuration
21700	21702	general I/O devices
21703	22662	RS-Bus_input module (EA) **V4***
22663	23622	RS-Bus_output module (EA) **V4***
23623	23630	Backplane-inputs **V4***
23631	23638	Backplane-outputs **V4***

The BM-C 1024 supports the following commands of the documentation:
IGENDGER.W61: State 28.07.99

5.1 Receiver commands

command	name
1	Init 1. Block without continuation block
2	Init 1. Block with continuation block
3	Init continuation block without continuation block
4	Init continuation block with continuation block
5	control_MP
6	time synchronisation
7	Ersatz_Ziel_Adr
8	Logout
9	PNUM query programm number
0	password
0B	SET_Filter
0C	Steuern_MP_Passw

5.2 Transmission commands

command	name
1	Init_Dat_MP with continuation block
2	Init_Dat_MP last data block
3	New_Dat_MP
4	acknowledgements
5	acknowledgement program-No.

6. Detector groups

I/O device-		Input states / Output states	Function value-	
No.	Name		No.	Name
1	Detector group 1	IS 0 group situation	0 1 2	not existing off (detector) on
		IS 1 TU-transmission	0 1 2	on off immediatedly on
		IS 2 pollution	0 1 2 3 4 5 6 7 8 9 10	off pollution-SDN member missing user current too high detector head missing **V4*** error external line **V4*** wrong type **V4*** member unknown **V4*** member line interuption **V4*** member line short circuit **V4*** member line memory overflow **V4***
		IS 3 alarm	0 1 2 3 4 5 6 7	off manual automatic group 1 of 2 group 2 of 2 intermediate memory 1 intermediate memory 2 revision alarm **V5***
		IS 4 technical message	0 1	off technical message
		IS 5 trouble	0 1 2	off short circuit broken
		IS 6 audit	0 1	audit off audit running
		OS 0 switch	0 1	off on
		OS 1 audit	0 1	start stop
O O O O				

I/O device- No.	Name	Input states / Output states	Function value- No.	Name
9999	Detector group 9999	IS 0 Group State	0 1 2	not present off on
		IS 1 TU-transmission	0 1 2	on off undelayed on
		IS 2 pollution	0 1 2 3 4 5 6 7 8 9 10	off pollution-SDN member missing user current too high detector head missing **V4*** error external line **V4*** wrong type **V4*** member unknown **V4*** member line interuption **V4*** member short circuit **V4*** member line memory overflow **V4***
		IS 3 alarm	0 1 2 3 4 5 6 7	off manual automatic group 1 of 2 group 2 of 2 intermediate memory 1 intermediate memory 2 revision alarm **V5***
		IS 4 techn. message	0 1	off technical message
		IS 5 trouble	0 1 2	off short circuit broken
		IS 6 audit	0 1	audit off audit running
		OS 0 switch	0 1	off on
		OS 1 audit	0 1	start stop

I/O type: 1-9999 detection group FDC1024

I/O devicetype_id: 300 102 401

7.1 Detectors

I/O device- No.	I/O device- Name	Input states / Output states	Function value- No.	Function value- Name
10000	user card 1 user 1	IS 0 State	0	not existing
			1	off (detector)
			2	on (detector)
			3	off (group)
			4	off (smoke sensor) **V4***
			5	off (thermic sensor) **V4***
		IS 1 trouble user	0	off
			1	pollution-SDN
			2	not present
			3	user current too high
			4	detector head missing **V4***
			5	trouble ext. line **V4***
			6	wrong type **V4***
			7	member unknown **V4***
			8	member line interruption **V4***
			9	member line short circuit **V4***
			10	member memory overflow **V4***
		IS 2 alarm	0	off
			1	manual
			2	automatic
			3	detector 1 of 2
			4	detector 2 of 2
			5	intermediate memory 1
			6	intermediate memory 2
			7	technical message
			8	revision alarm **V5***
		IS 3 diagnostic	0	ok
			1	warning
		IS 4 trouble line in front of member	0	off
			1	short circuit
			2	broken
		IS 5 trouble line behind member	0	off
			1	short circuit
			2	broken
		IS 6 audit	0	audit off
			1	audit running
		OS 0 switch	0	off
			1	on
			2	off (group) **V4***
			3	on (group) **V4***
			4	off (smoke sensor) **V4***
			5	off (thermic sensor) **V4***
10001	user card 1 user 2	IS 0 state	0	not existing
			1	off (detector)
			2	on (detector)
			3	off (group)
			4	off (smoke sensor) **V4***
			5	off (thermic sensor) **V4***
		...	...	...
O O O O				

10126	user card 1 user 127	IS 0 state	0 1 2 3 4 5	not existing off (detector) on (detector) off (group) off (smoke sensor) **V4*** off (thermic sensor) **V4***
		...	...	...
10127	user card 2 user 1	IS 0 state	0 1 2 3 4 5	not existing off (detector) on (detector) off (group) off (smoke sensor) **V4*** off (thermic sensor) **V4***
		...	...	...
		O O O O		
17619	user card 60 user 127	IS 0 state	0 1 2 3 4 5	not existing off (detector) on (detector) off (group) off (smoke sensor) **V4*** off (thermic sensor) **V4***
		...	...	...
		OS 0 switch	0 1 2 3 4 5	not existing off (detector) on (detector) off (group) off (smoke sensor) **V4*** off (thermic sensor) **V4***

I/O device No. = F(n,m) = 9999 + ((n-1) x 127) + m

n = card adress (1...60)
m = user No. on the card (1...127)

I/O type: 10000-17619 User FDC1024
I/O devicetypen_id: 300 102 402

7.2 Control modules (alternate to 7.1)

I/O device-		Input states / Output states	Function value-	
No.	Name		No.	Name
10000	user card 1 user 1	IS 0 situation	0 1 2 3	not present off (member) on (member) off (group)
		IS 1 error member	0 1 2 3 4 5 6	off - member missing user current too high - error external line **V4*** wrong member type **V4***
		IS 2	0	-
		IS 3 message	0 1	inactive active
		IS 4 trouble line in front of member	0 1 2	off short circuit broken
		IS 5 trouble line behind member	0 1 2	off short circuit broken
		OS 0 switch	0 1 2 3	off on off (group) **V4*** on (group) **V4***
		OS 1 activation	0 1	inactive active
10001	user card 1 user 2	IS 0 situation	0 1 2 3	not present off (member) on (member) off (group)
		...	...	...
		o o o	**o**	
10126	user card 1 user 127	IS 0 situation	0 1 2 3	not present off (member) on (member) off group)
		...	...	...
		IS 5 trouble line behind member	0 1 2	off short circuit broken
		OS 0 switch	0 1 2 3	off on off (group) **V4*** on (group) **V4***
		OS 1 activation	0 1	inactive active

10127	user card 2 user 1	IS 0 situation	0 1 2 3	not present off (member) on (member) off (group)
		...	...	...
		O O O O		
17619	user card 60 user 127	IS 0 situation	0 1 2 3	not present off (member) on off (group)
		...	...	...
		IS 5 trouble line behind member	0 1 2	off short circuit broken
		OS 0 switch	0 1 2 3	off on off (group) **V4*** on (group) **V4***
		OS 1 activation	0 1	inactive active

I/O device No. = F(n,m) = 9999 + ((n-1) x 127) + m

n = card adress (1...60)
m = member No. on the card (1...127)

I/O type: 10000-17619 control module FDC1024
I/O devicetypes_id: 300 102 403

8. Output channels

8.1 Output channels of control device (SE-Modules)

I/O device- No.	I/O device- Name	Input states / Output states	Function value- No.	Function value- Name
		0		
		IS 1 trouble	0 1 2	off short circiut broken
		IS 2 message	0 1	inactive active
		OS 0 switch	0 1	off (by FDC) on (by FDC)
		OS 1 activation	0 1	inactive active
17621	output channel 2	IS 0 situation	0 1 2 3 4 5 6 7	not present off (switched on by FDC+FBF+Türk.) off (von FBF) **V4*** off (by FDC) **V4*** off (by FDC+FBF) **V4*** off (by door contact) **V4*** off (by FBF+door cont.) **V4*** off (by FDC+door cont.) **V4***
		IS 1 trouble	0 1 2	off short circiut broken
		IS 2 message	0 1	inactive active
		OS 0 switch	0 1	off (by FDC) on (by FDC)
		OS 1 activation	0 1	inactive active
		O O O O		
18579	output channel 960	IS 0 situation	0 1 2 3 4 5 6 7	not present off (switched on by FDC+FBF+Türk.) off (by FBF) **V4*** off (by FDC) **V4*** off (by FDC+FBF) **V4*** off (by door contact) **V4*** off (by FBF+door cont.) **V4*** off (by FDC+door cont.) **V4***
		IS 1 trouble	0 1 2	off short circuit broken
		IS 2 message	0 1	inactive active
		OS 0 switch	0 1	off (by FDC) on (by FDC)

		OS 1 activation	0 1	inactive active

I/O type: 17620-18579output channel FDC1024
I/O device types_id: 300 102 404

8.2 Output channels extinguisher interface (LS-Module)

I/O device-		Input states / Output states	Function value-	
No.	Name		No.	Name
18580	extinguisher interface 1	IS 0 state	0 1 2	not present off on
		IS 1 trouble	0 1 2 3	off extinguishing system line broken short circuit
		IS 2 message	0 1	inactive active
18581	extinguisher interface 2	IS 0 state	0 1 2	not present off on
		IS 1 trouble	0 1 2 3	off extinguishing system line broken short circuit
		IS 2 message	0 1	inactive active
O O O O				
19539	extinguisher interface 960	IS 0 state	0 1 2	not present off on
		IS 1 trouble	0 1 2 3	off extinguishing system line broken short circuit
		IS 2 message	0 1	inactive active

I/O type: 18580-19539 Extinguisher interface FDC1024
I/O devicetypen_id: 300 102 405

8.3 Output channels of the alarm signaling device (AE-Module)

I/O device-		Input states / Output states	Function value-	
No.	Name		No.	Name
19540	output channel 1	IS 0 situation	0 1 2 3 4 5 6 7	not present off (switched on by FDC+FBF+ door cont.) off (by FBF) **V4*** off (by FDC) **V4*** off (by FDC+FBF) **V4*** off (by door contact) **V4*** off (by FBF+door cont.) **V4*** off (by FDC+door cont.) **V4***
		IS 1 trouble	0 1 2	off short circuit broken
		IS 2 message	0 1	inactive active
		OS 0 switch	0 1	off (by FDC) on (by FDC)
		OS 1 acivation	0 1	inactive active
19541	output channel 2	IS 0 situation	0 1 2 3 4 5 6 7	not present off (switched on by FDC+FBF+Türk.) off (by FBF) **V4*** off (by FDC) **V4*** off (by FDC+FBF) **V4*** off (by door contact)) **V4*** off (by FBF+door cont.) **V4*** off (by FDC+door cont.) **V4***
		IS 1 trouble	0 1 2	off short circuit broken
		IS 2 message	0 1	inactive active
		OS 0 switch	0 1	off (by FDC) on (by FDC)
		OS 1 activation	0 1	inactive active
		O O O O		
20499	output channel 960	IS 0 situation	0 1 2 3 4 5 6 7	not present off (switched on by FDC+FBF+Türk.) off (by FBF) **V4*** off (by FDC) **V4*** off (by FDC+FBF) **V4*** off (by door contact) **V4*** off (by FBF+door cont.) **V4*** off (by FDC+door cont.) **V4***
		IS 1 trouble	0 1 2	off short circuit broken

		IS 2 message	0 1	inactive active
		...	1	...

I/O type: 19540-20499 output channel FDC1024
I/O device types_id: 300 102 404

9. Input channels (IN-Module)

I/O device-		Input states / Output states	Function value-	
No.	Name		No.	Name
20500	input channel 1	IS 0 situation	0 1 2	not present off on
		IS 1 message	0 1	inactive active
		OS 0 switch	0 1	off on
20501	input channel 2	IS 0 situation	0 1 2	not present off on
		IS 1 message	0 1	inactive active
		OS 0 switch	0 1	off on
O O O O				
21459	input channel 960	IS 0 situation	0 1 2	not present off on
		IS 1 message	0 1	inactive active
		OS 0 switch	0 1	off on

I/O type: 20500-21459 Input channel FDC1024
I/O devicetypes_id: 300 102 406

10. Output channels of transmission unit (UE-Module)

I/O device- No.	I/O device- Name	Input states / Output states	Function value- No.	Function value- Name
21460	transmission unit 1	IS 0 situation automatic output	0	not present
			1	off (switched on by FDC+FBF+door contact)
			2	off (by FBF) **V4***
			3	off (by FDC) **V4***
			4	off (by FDC+FBF) **V4***
			5	off (by door contact) **V4***
			6	off (by FBF+door cont.) **V4***
			7	off (by FDC+door cont.) **V4***
		IS 1 transmission automatic output	0	inactive
			1	active
			2	break
			3	short circuit
		IS 2 situation manual output	0	not present
			1	off (switched on by FDC+FBF+door contact)
			2	off (by FBF) **V4***
			3	off (by FDC) **V4***
			4	off (by FDC+FBF) **V4***
			5	off (by door contact) **V4***
			6	off (by FBF+door cont.) **V4***
			7	off (by FDC+door cont.) **V4***
		IS 3 transmission manual output	0	inactive
			1	active
			2	break
			3	short circuit
		IS 4 situation trouble	0	not present
			1	off (switched on by FDC+FBF+door cont.)
			2	off (by FBF) **V4***
			3	off (by FDC) **V4***
			4	off (by FDC+FBF) **V4***
			5	off (by door contact) **V4***
			6	off (by FBF+door cont.) **V4***
			7	off (by FDC+door cont.) **V4***
		IS 5 transmission malfunction	0	inactive
			1	active
			2	break
			3	short circuit
		IS 6 situation technical message	0	not present
			1	off (switched on by FDC+FBF+door cont.)
			2	off (by FBF) **V4***
			3	off (by FDC) **V4***
			4	off (by FDC+FBF) **V4***
			5	off (by door contact) **V4***
			6	off (by FBF+door cont.) **V4***
			7	off (by FDC+door cont.) **V4***
		IS 7 transmission technical message	0	inactive
			1	active
			2	break
			3	short circuit
		OS 0 switch automatic output	0	off (by FDC)
			1	on (by FDC)
		OS 1 switch manual output	0	off (by FDC)
			1	on (by FDC)
		OS 2 switch trouble output	0	off (by FDC)
			1	on (by FDC)
		OS 3 switch technical message	0	off (by FDC)
			1	on (by FDC)

21461	transmission unit 1	IS 0 general situation	0 1 2	not present off on
		IS 1 response alarm	0 1	missing existing
		IS 2 response malfunction	0 1	missing existing
		IS 3 response technical message	0 1	missing existing
		IS 4 safe for brigade key	0 1 2	not present locked free
		IS 5 FSD-tamper	0 1 2	ok break short circuit
		IS 6 FSD door	0 1	closed open
		IS 7 closed circuit	 0 1 2	from V04.00 V03.xx not present closed closed open open -----
		OS 0 switch	0 1	off on
21462	transmission unit 1 alarm delay	IS 0 situation	0 1	off on
		IS 1 delay time	0 1	- running
		IS 2 exploring time	0 1	- running
		OS 0 switch	0 1	off on
		O O O O		
21637	transmission unit 60	IS 0 situation automatic output	0 1 2 3 4 5 6 7	not present off (switched on by FDC+FBF+door cont.) off (by FBF) **V4*** off (by FDC) **V4*** off (by FDC+FBF) **V4*** off (by door contact) **V4*** off (by FBF+door cont.) **V4*** off (by FDC+door cont.) **V4***
		IS 1 transmission automatic output	0 1 2 3	inactive active break short circuit
		IS 2 situation manual output	0 1 2 3 4 5 6 7	not present off (switched on by FDC+FBF+door cont.) off (by FBF) **V4*** off (by FDC) **V4*** off (by FDC+FBF) **V4*** off (by door contact) **V4*** off (by FBF+door cont.) **V4*** off (by FDC+door cont.) **V4***

		IS 3 transmission manual output	0 1 2 3	inactive active break short circuit
		IS 4 situation trouble	0 1 2 3 4 5 6 7	not present off (switched on by FDC+FBF+door cont.) off (by FBF) **V4*** off (by FDC) **V4*** off (by FDC+FBF) **V4*** off (by door contact) **V4*** off (by FBF+door cont.) **V4*** off (by FDC+door cont.) **V4***
		IS 5 transmission trouble	0 1 2 3	inactive active break short circuit
		IS 6 situation technical message	0 1 2 3 4 5 6 7	not present off (switched on by FDC+FBF+door cont.) off (by FBF) **V4*** off (by FDC) **V4*** off (by FDC+FBF) **V4*** off (by door contact) **V4*** off (by FBF+door cont.) **V4*** off (by FDC+door cont.) **V4***
		IS 7 transmission technical message	0 1 2 3	inactive active break short circuit
		OS 0 switch auto. output.	0 1	off (by FDC) on (by FDC)
		OS 1 switch man. output	0 1	off (by FDC) on (by FDC)
		OS 2 switch trouble output	0 1	off (by FDC) on (by FDC)
		OS 3 switch technical message	0 1	off (by FDC) on (by FDC)
21638	transmission unit 60	IS 0 general situation	0 1 2	not present off on
		IS 1 response alarm	0 1	missing existing
		IS 2 response malfunction	0 1	missing existing
		IS 3 response technical message	0 1	missing existing
		IS 4 safe for brigade key	0 1 2 3	not present locked free door open
		IS 5 FSD-tamper	0 1 2	ok break short circuit

		IS 6 FSD door	0 1	closed open
		IS 7 closed circuit	 0 1 2	from V04.00 V03.xx not present closed closed open open -----
		OS 0 switch	0 1	off on
21639	transmission unit 60 alarm delay	IS 0 situation	0 1	off on
		IS 1 delay time	0 1	---- running
		IS 2 exploring time	0 1	---- running
		OS 0 switch	0 1	off on

I/O type:			I/O device types_id:	
	(1)	Transmission device FDC1024		300 102 407
	(2)	Transmission device 2 FDC1024		300 102 408
	(3)	Alarm delay FDC1024		300 102 409

11. Equipping configuration I/O-Bus

I/O device-		Input states / Output states	Function value-	
No.	Name		No.	Name
21640	card address 1	IS 0 situation	0 1 2	not present off on
		IS 1 trouble	0 1	off serial interface
		OS 0 switch	0 1	off on
		O O O O		
21699	card address 60	IS 0 situation	0 1 2	not present off on
		IS 1 trouble	0 1	off serial interface
		OS 0 switch	0 1	off on

I/O type: 21640-21699 card address FDC1024
I/O device types_id: 300 102 410

12. General I/O devices and operating of control unit

I/O device-		Input states / Output states	Function value-	
No.	Name		No.	Name
21700	revision FDC 1024	OS 0 alarm	0 1 2	stop reset stop extern acoustic
		OS 1 diagnostic	0 1	started stopped
		OS 2 test FDC	0 1	started stopped
		IS 0 diagnostic	0 1 2 3	ok warning stopped started
		IS 1 test FDC	0 1 2	ok error started
21701	summary display FDC	IS 0 LED trouble	0 1	no yes
		IS 1 LED alarm	0 1	no alarm alarm
		IS 2 LED deactivation	0 1	no yes
		IS 3 LED fire brigade alarmed	0 1	no yes
		IS 4 LED call fire brigade	0 1	off on
21702	energy supply FDC	IS 0 AC	0 1	ok trouble
		IS 1	0 1	ok trouble
		IS 2 fuse	0 1	ok trouble

I/O type:	21700	revision FDC1024	I/O device types_id:	300 102 411
	21701	summary displaye FDC1024		300 102 412
	21702	energy supply FDC1024		300 066 403

13. RS-Bus-Input module (EA-Module) V4*

I/O device-		Input states / Output states	Function value-	
No.	Name		No.	Name
21703	input 1	IS 0 state	0 1 2	not existing switched off on
		IS 1 message	0 1	inactive active
		OS 0 switch	0 1	off on
21704	input 2	IS 0 state	0 1 2	not existing switched off on
		IS 1 message	0 1	inactive active
		OS 0 switch	0 1	off on
		O O O O		
22662	input 960	IS 0 state	0 1 2	not existing switched off on
		IS 1 message	0 1	inactive active
		OS 0 switch	0 1	off on

I/O type: 21703-22662 RS-Bus_Input module inputs (EA) FDC1024
I/O device types_id: 300 102 424

14. RS-Bus-Output module (EA-Module) V4*

I/O device-		Input states / Output states	Function value-	
No.	Name		No.	Name
22663	output 1	IS 0 state	0 1 2	not existing switched off on
		IS 1 message	0 1	inactive active
		OS 0 switch	0 1	off on
		OS 1 activate	0 1	deactivate activate
22664	output 2	IS 0 state	0 1 2	not existing switched off on
		IS 1 message	0 1	inactive active
		OS 0 switch	0 1	off on
		OS 1 activate	0 1	deactivate activate
		o o o o		
23622	output 960	IS 0 state	0 1 2	not existing switched off on
		IS 1 message	0 1	inactive active
		...	1	...

I/O type: 22663-23622 RS-Bus-Output module (EA) FDC1024
I/O device types_id: 300 102 423

15. Backplane-inputs V4*

I/O device-		Input states / Output states	Function value-	
No.	Name		No.	Name
23623	input 1	IS 0 state	0 1 2	not existing switched off on
		IS 1 message	0 1	inactive active
		OS 0 switch	0 1	off on
23624	input 2	IS 0 state	0 1 2	not existing switched off on
		IS 1 message	0 1	inactive active
		OS 0 switch	0 1	off on
		O O O O		
23630	input 8	IS 0 state	0 1 2	not existing switched off on
		IS 1 message	0 1	inactive active
		OS 0 switch	0 1	off on

I/O type: 23623-23630 Backplane-inputs FDC1024
I/O device types_id: 300 102 426

16. Backplane-outputs V4*

I/O device-		Input states / Output states	Function value-	
No.	Name		No.	Name
23631	output 1	IS 0 state	0 1 2	not existing switched off on
		IS 1 message	0 1	inactive active
		OS 0 switch	0 1	off on
		OS 1 activate	0 1	deactivate activate
23632	output 2	IS 0 state	0 1 2	not existing switched off on
		IS 1 message	0 1	inactive active
		OS 0 switch	0 1	off on
		OS 1 activate	0 1	deactivate activate
		o o o o		
23638	output 8	IS 0 state	0 1 2	not existing switched off on
		IS 1 message	0 1	inactive active
		...	1	...

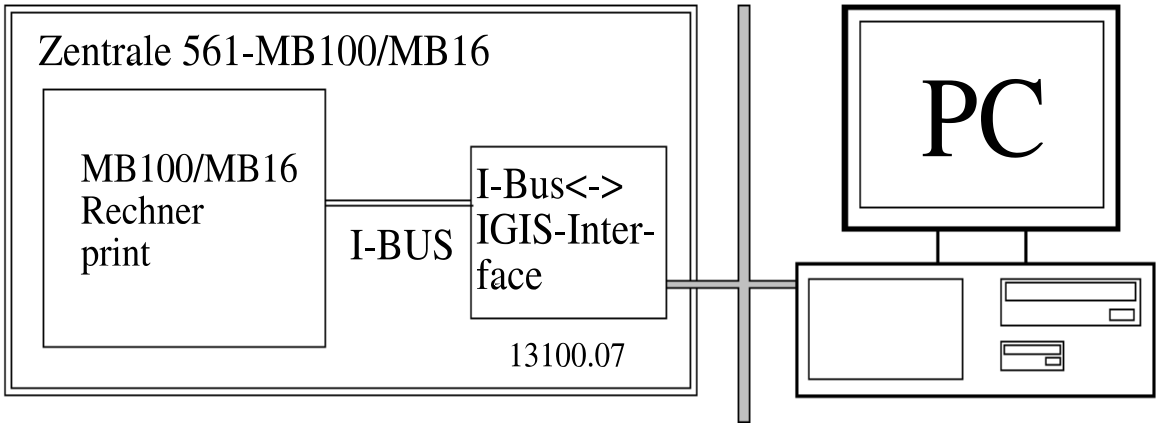
I/O type: 23631-23638 Backplane-outputs FDC1024
I/O device types_id: 300 102 425

Note:
Flag **V4*** (04.04.00) points to the modifications in FDC1024 from V03 to V04
Flag **V5*** (13.07.00) points to the modifications in FDC1024 from V05 to V05.01

2.4 Connection of the control unit 561-MB100/MB16/MB8/HB48 to the IGIS network

1. Possible configurations of the system

1.1 System connection via the IGIS-LAN-net

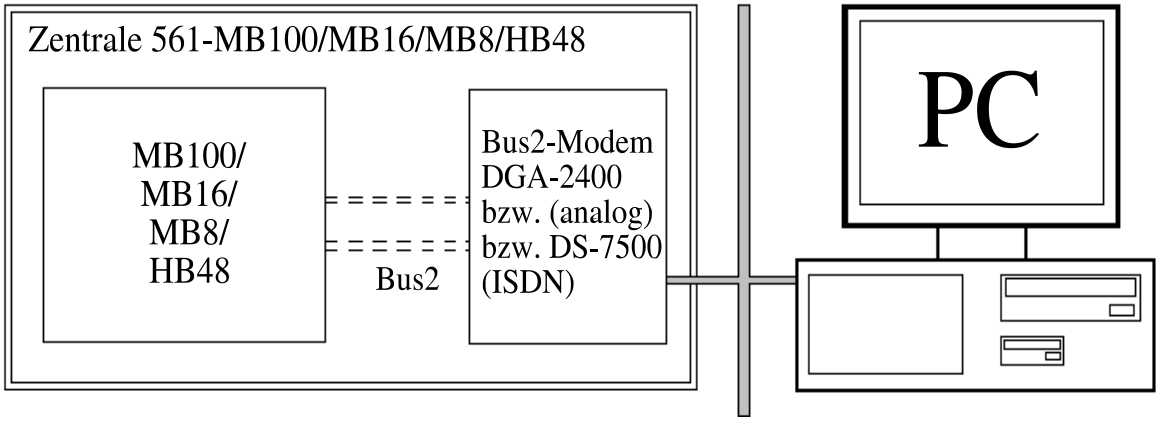


IGIS-LAN

Requirements to the software versions of the board :

561-MB100: Program E015.00.0V05.00 and higher
Program E015.02.0V06.06 and higher
Program E015.07.0V01.00 and higher
561-MB16: Program E015.03.0V01.00 and higher
Program E015.06.0V01.00 and higher

1.2 System connection via the telecommunication networks



telecommunication networks

Requirements to the software versions of the board :

561-MB100: Program E015.07.0V05.00 and higher
561-MB16: Program E015.03.0V06.00 and higher
Program E015.06.0V05.00 and higher
561-MB8: Program E015.04.0V06.00 and higher
Program E015.05.0V05.00 and higher
561-HB48: Program E015.08.0V07.00 and higher

2. Communication with the IGIS-net

The Description "Connection of IGIS devices to the IGIS net" gives more information about the Communication with the IGIS-net.

2.1 Access code

A special access code for IGIS is available for the commands INIT_MP and SET_FILT.
This special code is entered in the M100 using the programming function 517.

2.2 **Tamper message** (not available in program E015.00.0V05.xx)

Using the function 517 you can program at the central unit 561-MB100 whether or not a tamper message shall be triggered if a wrong access code has been entered .
If "Tamper if code incorrect" is active, triggering of a tamper message is executed
if a wrong access code has been entered 9 times or if a wrong password (561-MB100) has been transmitted.

For systems designed as per VdS directives, "Tamper if code incorrect" may not be active otherwise the central unit is no longer non reactive in relation to IGIS.

2.3 Programming "**Extern switching**"

Using function 517 you can program at the central unit 561-MB100 whether or not
switching actions that influence external arming of the central unit are permitted via IGIS.

If programming of "Extern switching by IGIS" is set to "NO", the following switching
actions are not permitted :
- External arming of zones
- External disarming of zones.
- External deactivating of detector groups
- Clearing of detector groups with external arming.
- Clearing of tamper alarms.
- Clearing of intrusion alarms with external arming main zone via the I/O devices 36 to 40.

With units designed as per VdS directives, "Extern switching by IGIS" must be set to "NO" as otherwise the central unit is not nonreactive in relation to IGIS.

1. Tamper loudspeaker, flashing lamp

I/O device-		Input states	Function value-	
No.	Name		No.	Name
1	loudspeaker	IS 0 tamper	0 1 2	no released not present
	flashing lamp	IS 0 tamper	0 1 2	no released not present

ConfigurationText:
Loudspeaker: SY_sabo(00001);
Flashing lamp: SY_sabo(00002);
I/O type: 1-2 System tamper MB100/16/8

1.1 Acoustic messages

I/O device-		Input states/ Output states	Function value-	
No.	Name		No.	Name
3	main zone 1	IS 0 buzzer	0 1	off on
		OS 0 switch	0	buzzer off
4 ***1)**	main zone 2	IS 0 buzzer	0 1	off on
		OS 0 switch	0	buzzer off
5 ***2)**	main zone 3	IS 0 buzzer	0 1	off on
		OS 0 switch	0	buzzer off
6 ***3)**	main zone 4	IS 0 buzzer	0 1	off on
		OS 0 switch	0	buzzer off
7 - 9	reserved for extensions			

*1) not available for 561-MB8
*2) not available for 561-MB8 und MB16
*3) not available for 561-MB8,MB16 und HB48

Configurations-Text:
Buzzer_main zone_x : SUHB_100(0003x);

I/O type: 3-6 Acoustic signalling MB100/16/8

Note :
These I/O devices are available starting version V06.00, however not for E015.00.0Vxx and not for E015.02.0Vxx

2. System malfunctions

I/O device-		Input states	Function value-	
No.	Name		No.	Name
10	energy supply	IS 0	0 1	ok error
		IS 1 storage	0 1	off on
		IS 2 AC	0 1	ok on trouble
11	clock	IS 0 clock running	0 1	running stopped
12	processor	IS 0 ***2)** trouble Eprom/RAM	0 1	off on
13 ***1)**	printer	IS 0 programming	0 1	not present present
		IS 1 general trouble	0 1	ok on trouble
		IS 2 paper	0 1	ok empty

*1) not available for 561-MB8 and MB16
*2) available starting version E015.03.0V06.xx, E015.06.0V05.xx, E015.07.0V05.xx

Configurations-Text

Energie_Stoerung : SY_Energ(00010);
Uhr : UHR_lauf(00011);
Rechner_Stoerung : SY_mc(00012);
Stoerung_Drucker_x : SY_Druck(0001x);

I/O type:

10 Energy supply MB100/16/8
11 Clock running MB100/16/8
12 Processor error MB100/16/8 M99/20
13 Printer state MB100/16/8

3. Switching devices

I/O device-		Input states	Function value-	
No.	Name		No.	Name
20	switching device 1	IS 0 main zone No.	0 1 2 3 4	not present zone 1 zone 2 ***1)** zone 3 ***2)** zone 4 ***3)**
		IS 1 secondary zone No.	0 1 2 15	no secondary zone secondary zone 1 secondary zone 2 ... secondary zone 15
		IS 2 switching position	0 1 2	open closed not present
		IS 3 operation possible	1 2	yes no
		IS 4 tamper housing	0 1	off on
		IS 5 ***4)** tamper line	0 1	off on
		IS 6 ***5)** addressing	0 1	ok on trouble
		IS 7 ***6)** tamper door break	0 1	off on
21	switching device 2	IS 0 main zone No.	0 1	not present zone 1 ...
		...	...	...
O O O O				
35	switching device 16	...	...	...
		IS 7 ***6)** tamper door break	0 1	off on

*1) not available with 561-MB16

*2) not available with 561-MB8 and MB16

*3) not available with 561-MB8, MB16 and HB48

*4) - Line tampering (armed resp. disarmed input) via switching device connected to the analog channel.
- Line tampering between the Identkey evaluation unit and the Identkey operating unit resp., the Identkey block lock if the switching device is connected to bus2.

*5) Only if a switching device is connected to a bus.

*6) Available starting version E015.07.0V02.00
This I/O device state serves the display of unauthorized door opening if an ACS-1 is connected.

Configuration-Text:

HBxxx_UBxxx_SExxx : Sch_100(000xx);
HBxxx_UBxxx_SExxx : SchB_100(000xx); {switching device Bus}

I/O type: 20-35 switching device MB100/16

4. Main zones 1...4

I/O device-		Input states/ Output states	Function value-	
No.	Name		No.	Name
36	main zone 1	IS 0 activation status	0 1 2 3	disarmed internally armed externally armed not present
		IS 1 alarm	0 1	off on
		IS 2 hold-up alarm	0 1	off on
		IS 3 tamper alarm	0 1	off on
		IS 4 ***6)** trouble_1x ext_blocked	0 1	off on
		IS 5 ***4)** arming possible	0 1 2 3	no internally externally internally and externally
		OS 0 switch	0 1 2 3 4 5	disarmed armed internally delayed armed internally delete armed externally ***5)** delete tamper ***7)**
37 ***1)**	main zone 2	IS 0 activation status	0 1 2 4	disarmed armed internally armed externally not present
		...	...	...
38 ***2)**	main zone 3	...	...	...
39 ***3)**	main zone 4	...	...	...
		OS 0 switch	 3 4 5	... delete armed externally ***5)** delete tamper ***7)**

*1) not available with 561-MB8
*2) not available with 561-MB8 und MB16
*3) not available with 561-MB8, MB16 und HB48
*4) with V3.0, not for E015.00.0Vxx and not for E015.02.0Vxxx
*5) available starting version E015.02.0V06.04, E015.03/.06/.07.0V01.00, E015.05.0V05.00 , E015.04.0V06.0
*6) Up to V01.02 the state IS 4 "trouble 2 * was "externally blocked"
*7) avilable from V06.00, not for E015.00.0Vxx and not for E015.02.0Vxxx

Configurations-Text:
Main zone_x : HB_100(0003x);
I/O type: 36-39 Main zone MB100/MB16

5. secondary zones

I/O device- No.	I/O device- Name	Input states/ Output states	Function value- No.	Function value- Name
40	main zone 1	IS 0 arming condition	0 1 2	disarmed internally armed externally armed
	secondary zone 1	IS 1 alarm	0 1	off on
		IS 2 positive drive	0 1	not possible possible
		OS 0 switch	0 1	disarm arm
O O O O				
54	main zone 1	IS 0 arming condition	0 1 2	disarmed internally armed externally armed
	secondary zone 15	IS 1 alarm	0 1	off on
		IS 2 positive drive	0 1	not possible possible
		OS 0 switch	0 1	disarm arm

main zone	I/O´s of secondary zones
234	55...69 ***1)** 70...84 ***2)** 85...99 ***3)**

*1) not available with 561-MB8
*2) not available with 561-MB8 and MB16
*3) not available with 561-MB8, MB16 and HB48

Configurations-Text:

Hbxx_UBxx : HBUB_100(000xx);

I/O type: 40-99 secondary zone MB100/MB16
I/O device 100 is not used.

6. Groups

I/O device- No.	I/O device- Name	Input states/ Output states	Function value- No.	Function value- Name
101 Group 01	Input states	IS 0 condition	0 1 2	ok released not present
		IS 1 alarm	0 1	off on
		IS 2 internal blocking	0 1	off on
		IS 3 external blocking	0 1	off on
		IS4 tamper	0 1	off on
		IS 5 main zone	0 1 2 3	zone 1 zone 2 ***1)** zone 3 ***2)** zone 4 ***3)**
		IS 6 secondary zone	0 1 15	no secondary zone secondary zone 1 ... secondary zone 15
	output states	OS 0 internal blocking	0 1	off on
		OS 1 external blocking	0 1	off on
		OS 2 ***4)** erase	0	erase
with 561-MB8 the I/O devices 109-199 are not applicable with 561-MB16 the I/O devices 117-199 are not applicable with HB48 the I/O devices 149-199 are not applicable				
199 group 99	...	...	...	...
	output states	OS 2 ***4)** erase	0	erase

*1) not available with 561-MB8
*2) not available with 561-MB8 and MB16
*3) not available with 561-MB8, MB16 and HB48
*4) available starting version V06.00, not with E015.00.0Vxx and not with E015.02.0Vxxx

Configurations-Text:
Gruppe_xx : Grp_100(00xxx);

I/O type: 101-199 Group intrusion MB100/16/8
Group intrusion MB100/16/8 filtered
200 not used.

7. Inputs 1 - 56 with analog resistance measurement

I/O device-		Input states	Function value-	
No.	Name		No.	Name
201	analog input 1	IS 0 physical situation	0 1 2 3 4	resistor zone 1 (short circuit) resistor zone 2 (short circuit) resistor zone 3 (ok) resistor zone 4 (rupture) resistor zone 5 (rupture)
		IS 1 alarm	0 1	off on
		IS 2 ***4)** main zone	0 1 2 3 4	not present zone 1 zone 2 ***1)** zone 3 ***2)** zone 4 ***3)**
		IS 3 ***4)** secondary zone	0 1 15	no secondary zone secondary zone 1 ... secondary zone 15
202	input 2	IS 0 physical situation	0 1	resistor zone 1 (short circuit) resistor zone 2 (short circuit) ...
		...	...	...
with 561-MB8 the I/O devices 209-256 are not applicable with 561-MB16 the I/O devices 217-256 are not applicable				
256	input 56	...	...	...
		IS 3 ***4)** secondary zone	0 1 15	no secondary zone secondary zone 1 ... secondary zone 15

*1) not available with 561-MB8
*2) not available with 561-MB8 and MB16
*3) not available with 561-MB8, MB16 and HB48
*4) available starting version E015.03/.07.0V01.02, E015.04.0V06.00, E015.05.0V05.00 E015.06.0V04.00

Configurations-Text:
Analog_Input_xx : AE_100(002xx);

I/O type: 201-256 Analog-Input MB100/16/8

Notes:
1) Input 17 to input 22 (I/O 217-222) are not available if the first expansion board is a 2 BSA/10-MGE module.
2) Input 33 to input 38 (I/O 233-238) are not available if the second expansion board is a 2 BSA/10-MGE module.
3) Inputs 49 to 54 (I/O 249-254) are not available if the third expansion board is a 2 BSA/10-MGE module.
4) The function value 0 with I/O device state 2 is transmitted if the input is not allocated to a detector group. This is the case if
   - the input is programmed at detector group 0.
   - a switching device is connected at the input.

8. Subscriber BUS-1 String

I/O device-		Input states	Function value-	
No.	Name		No.	Name
257	user 1 detector bus string 1 ***5)**	IS 0 release	0 1	off on not present
		IS 1 intruder alarm	0 1	off on
		IS 2 tamper released	0 1	off on
		IS 3 tamper alarm	0 1	off on
		IS 4 addressing	0 1	ok on trouble
		IS 5 ***4)** main zone	0 1 2 3 4	not present zone 1 zone 2 ***1)** zone 3 ***2)** zone 4 ***3)**
		IS 6 ***4)** secondary zone	0 1 15	no secondary zone secondary zone 1 ... secondary zone 15
o o o o				
319	user 63 detector bus string1	...	0 1 2 3 4	...
		IS 6 ***4)** secondary zone	0 1 15	no secondary zone secondary zone 1 ... secondary zone 15

*1) not available with 561-MB8
*2) not available with 561-MB8 und MB16
*3) not available with 561-MB8, MB16 and HB48
*4) available starting version E015.03/.07.0V01.02, E015.04.0V06.00, E015.05.0V05.00 E015.06.0V04.00
*5) Special monitoring states possible for operation unit-modules, door-modules, radio-modules and alarmings-modules (see next pages - see also "BUS-1" Installation and Programming Instructions 561-MB100).

User BUS-1 String **2:** I/O320 to I/O382 ***3)**
" " **3:** I/O383 to I/O445 ***3)**
" " **4:** I/O446 to I/O508 ***3)**
" " **5:** I/O509 to I/O571 ***3)**

Configurations-Text:
Bus1_Stx_Tlnxx : Bus1_Tln(00xxx);
I/O type: 257-571 Bus1-user MB100/16/8

BUS-1 user "operating unit module"

The operating unit module occupies 2 addresses on BUS-1 and thus also 2 I/O devices (n, n+1). Only the BUS-1 addresses 1, 5, 9,..can be occupied by operating unit modules. Thus, it is automatically the case that only specific I/O devices can be used for operating unit modules (e. g. with string 1 I/O 257/258, I/O 261/262, I/O 265/266 ...).

I/O device-		Input states	Function value-	
No.	Name		No.	Name
n	user x detector bus string y	IS 0 not applicable		
		IS 1 not applicable		
		IS 2 tamper released	0 1	off on
		IS3 tamper alarm	0 1	off on
		IS 4 addressing	0 1	ok on trouble
		IS 5 main zone ***4)**	0 1 2 3 4	Not present zone 1 zone 2 ***1)** zone 3 ***2)** zone 4 ***3)**
		IS 6 not applicable		
n+1	user x+1 detector bus string y	IS 0,1,2,3 not applicable		
		IS 4 addressing	0 1	ok on trouble
		IS 5 main zone ***4)**	0 1 2 3 4	not present zone 1 zone 2 ***1)** zone 3 ***2)** zone 4 ***3)**
		IS 6 not applicable		

*1) not available with 561-MB8
*2) not available with 561-MB8 and MB16
*3) not available with 561-MB16, MB8 and HB48
*4) available starting version E015.03/.07.0V01.02, E015.04.0V06.00, E015.05.0V05.00 E015.06.0V04.00

Configurations-Text:
n: Bus1_Stx_TInxx : Bus1_Bdt(00xxx);
n+1: Bus1_Stx_TInxx : Bus1_Adr(00xxx);

BUS-1 user "door module"

The door module occupies 3 addresses on BUS-1 and thus also 3 I/O devices (n,n+1,n+2). Only the BUS-1 addresses 1, 5, 9,... can be occupied by door modules. Thus, it is automatically the case that only specific I/O devices can be used for door modules (e. g. with string 1 I/O257/258/259, I/O 261/262/263, I/O 265/266/267...).

I/O device-		Input states	Function value-	
No.	Name		No.	Name
n	user x detector bus string y	IS 0 release opening contact	0 1	off on
		IS 1 alarm opening contact	0 1	off on
		IS 2 tamper released	0 1	off on
		IS 3 tamper alarm	0 1	off on
		IS 4 addressing	0 1	ok on trouble
		IS 5 ***4)** main zone	0 1 2 3 4	not present zone 1 zone 2 ***1)** zone 3 ***2)** zone 4 ***3)**
		IS 6 ***4)** secondary zone	0 1 15	no secondary zone secondary zone 1 ... secondary zone 15
n+1	user x+1 detector bus string y	IS 0,1,2,3 not applicable		
		IS 4 addressing	0 1	ok on trouble
		IS 5,6 not applicable		
n+2	user x+2 detector bus string y	IS 0 lock release	0 1	existing not present
		IS 1 not applicable		
		IS 2 release RSK	0 1	off on
		IS 3 not applicable	0 1	off on
		IS 4 addressing	0 1	ok on trouble

		IS 5 ***4)** main zone RSK	0 1 2 3 4	not present zone 1 zone 2 ***1)** zone 3 *** 2)** zone 4 *** 3)**
		IS 6 ***4)** secondary zone RSK	0 1 15	no secondary zone secondary zone 1 ... secondary zone 15

*1) not available with 561-MB8
*2) not available with 561-MB8 and MB16
*3) not available with 561-MB16, MB8 and HB48
*4) available starting version E015.03/.07.0V01.02, E015.04.0V06.00, E015.05.0V05.00 E015.06.0V04.00

Configuration-Text:

n: Bus1_Stx_TInxx : Bus1_TM1(00xxx);
n+1: Bus1_Stx_TInxx : Bus1_Adr(00xxx);
n+2: Bus1_Stx_TInxx : Bus1_TM2(00xxx);

BUS-1 member "radio-module"
(ab E015.07.0V06.00)

The door module reserves 4 addresses of BUS-1 and therefore also 4 I/O devices (n,n+1,n+2,n+3).

I/O device- No.	I/O device- Name	Input states	Function value- No.	Function value- Name
n	user x detector bus y	IS 0 release wireless detector	0 1 2	off on not existing
		IS 1 alarm wireless detector	0 1	off on
		IS 2 tamper released	0 1	off on
		IS 3 tamper alarm	0 1	off on
		IS 4 addressing	0 1	ok on trouble
		IS 5 ***4)** main zone wireless detector 1	0 1 2 3 4	not present zone 1 zone 2 ***1)** zone 3 ***2)** zone 4 ***3)**
		IS 6 ***4)** secondary zone wireless detector 1	0 1 15	no secondary zone secondary zone 1 ... secondary zone 15
n+1	user x+1 detector bus string y	IS 0 release error	0 1	off on
		IS 1 alarm not applicable	0 1	off
		IS 2 release wireless detector 2	0 1	off on
		IS 3 alarm wireless detector 2	0 1	off on
		IS 4 addressing	0 1	ok on trouble
		IS 5 ***4)** main zone wireless detector 2	0 1 2 3 4	not present zone 1 zone 2 ***1)** zone 3 ***2)** zone 4 ***3)**
		IS 6 ***4)** secondary zone wireless detector 2	0 1 15	no secondary zone secondary zone 1 ... secondary zone 15
n+2	user x+2 detector bus string y	IS 0 radio transmission disconnection	0 1	off on
		IS 1 alarm radio transmission disconnection	0 1	off on
		IS 2 release wireless detector 3	0 1	off on

		IS 3 alarm wireless detector 3	0 1	off on
		IS 4 addressing	0 1	ok on trouble
		IS 5 ***4)** main zone wireless detector 3	0 1 2 3 4	not present zone 1 zone 2 ***1)** zone 3 ***2)** zone 4 ***3)**
		IS 6 ***4)** secondary zone wireless detector 3	0 1 15	no secondary zone secondary zone 1 ... secondary zone 15
n+3	user x+3 detector bus string y	IS 0 release external signal	0 1	off on
		IS 1 alarm external signal	0 1	off on
		IS 2 release wireless detector 4	0 1	off on
		IS 3 alarm wireless detector 4	0 1	off on
		IS 4 addressing	0 1	ok on trouble
		IS 5 ***4)** main zone wireless detector 4	0 1 2 3 4	not present zone 1 zone 2 ***1)** zone 3 ***2)** zone 4 ***3)**
		IS 6 ***4)** secondary zone wireless detector 4	0 1 15	no secondary zone secondary zone 1 ... secondary zone 15

*1) not available with 561-MB8
*2) not available with 561-MB8 and MB16
*3) not available with 561-MB16, MB8 and HB48
*4) available starting version V06.00, but not for E015.00.0Vxx and not for E015.02.0Vxx

Configurations-Text:

n: Bus1_Stx_TInxx : Bus1_Adr(00xxx);
n+1: Bus1_Stx_TInxx : Bus1_FU2(00xxx);
n+2: Bus1_Stx_TInxx : Bus1_FU3(00xxx);
n+3: Bus1_Stx_TInxx : Bus1_FU4(00xxx);

I/O-Types:

n: 300010065 Bus1-radio module MB100/16/8 Adr
n+1: 300010066 Bus1-radio module MB100/16/8 2
n+2: 300010067 Bus1-radio module MB100/16/8 3
n+3: 300010068 Bus1-radio module MB100/16/8 4

Alarming-modules - valid for the components flashing lamp and loudspeaker

I/O device-		Input states	Function value-	
No.	Name		No.	Name
n	user x detector bus string y	IS 0 release monitoring	0 1	off on
		IS 1 alarm monitoring	0 1	off on
		IS 2 tamper released	0 1	off on
		IS 3 tamper alarm	0 1	off on
		IS 4 addressing	0 1	ok on trouble
		IS 5 ***4)** main zone	0 1 2 3 4	not present zone 1 zone 2 ***1)** zone 3 ***2)** zone 4 ***3)**
		IS 6 not applicable		

*1) not available with 561-MB8
*2) not available with 561-MB8 and MB16
*3) not available with 561-MB16, MB8 and HB48
*4) available starting version E015.03/.07.0V01.02, E015.04.0V06.00, E015.05.0V05.00 E015.06.0V04.00

Configurations-Text:

Bus1_Stx_Tlnxx : Bus1_ALM(00xxx);

9. Inputs databus-string

I/O device-		Input states	Function value-	
No.	Name		No.	Name
572	user 0 input 1	IS 0 release	0 1	off on
		IS 1 alarm released	0 1	off on
		IS 2 ***4)** Main zone	0 1 2 3 4	not present zone 1 zone 2 ***1)** zone 3 ***2)** zone 4 ***3)**
		IS 3 ***4)** secondary zone	0 1 15	no secondary zone secondary zone 1 ... secondary zone 15
573	user 0 input 2	IS 0 release	0 1	off on
		IS 1 alarm released	0 1	off on
		IS 2 ***4)** main zone	0 1 2 3 4	not present zone 1 zone 2 ***1)** zone 3 ***2)** zone 4 ***3)**
		IS 3 ***4)** secondary zone	0 1 15	no secondary zone secondary zone 1 ... secondary zone 15
574	user 0 input 3	IS 0 release	0 1	off on
		IS 1 alarm released	0 1	off on
		IS 2 ***4)** main zone	0 1 2 3 4	not present main zone 1 main zone 2 ***1)** main zone 3 ***2)** main zone 4 ***3)**
		IS 3 ***4)** secondary zone	0 1 15	no secondary zone secondary zone 1 ... secondary zone 15
575	user 0 input 4	IS 0 release	0 1	off on
		IS 1 alarm released	0 1	off on
		IS 2 ***4)** main zone	0 1 2 3 4	not present main zone 1 main zone 2 ***1)** main zone 3 ***2)** main zone 4 ***3)**

		IS 3 ***4)** secondary zone	0 1 ... 15	no secondary zone secondary zone 1 secondary zone 15
576	user 0 input 5	IS 0 release	0 1	off on
		IS 1 alarm release	0 1	off on
		IS 2 ***4)** main zone	0 1 2 3 4	not present main zone 1 main zone 2 ***1)** main zone 3 ***2)** main zone 4 ***3)**
		IS 3 ***4)** secondary zone	0 1 ... 15	no secondary zone secondary zone 1 secondary zone 15
577	user 1 input 1	IS 0 release	0 1	off on
		...	...	...
O O O O				
891	user 63 input 5	...		...
		IS 3 ***4)** secondary zone	0 1 ... 15	o secondary zone secondary zone 1 secondary zone 15

*1) not available with 561-MB8
*2) not available with 561-MB8 and MB16
*3) not available with 561-MB16,MB8 and HB48
*4) available starting version E015.03/.07.0V01.02, E015.04.0V06.00, E015.05.0V05.00 and E015.06.0V04.00
I/O(user ,EING) = 571 + 5*(user) + EING
I/O = I/O device-Nr, user = member-No, EING = input number

Configurations-Text:
Bus2_TInxx_Eingx : B2_TIn_E(00xxx);

BUS-2 user spektron, dektron and ultrasonic detector

I/O device-		Input states	Function value-	
No.	Name		No.	Name
n	user x input 1	IS 0 release	0 1	off on
		IS 1 alarm	0 1	off on
		IS 2 ***4)** main zone	0 1 2 3 4	not present zone 1 zone 2 ***1)** zone 3 ***2)** zone 4 ***3)**
		IS 3 ***4)** secondary zone	0 1 15	no secondary zone secondary zone 1 ... secondary zone 15
n+1	user x input 2	IS 0,1,2,3 not applicable	0 1	
n+2	user x input 3	IS 0,1,2,3 not applicable	0 1	
n+3	user x input 4	IS 0,1,2,3 not applicable	0 1	
n+4	user x input 5	IS 0,1,2,3 not applicable	0 1	

*1) not available with 561-MB8
*2) not available with 561-MB8 and MB16
*3) not available with 561-MB16, MB8 and HB48
*4) available starting version E015.03/.07.0V01.02, E015.04.0V06.00, E015.05.0V05.00, E015.06.0V04.00

BUS-2 user 5-Output module , user interfaces, telephone dialling device

I/O device-		Input states	Function value-	
No.	Name		No.	Name
n	user x input 1	IS 0 release	0 1	off on
		IS 1 alarm release	0 1	off on
		IS 2 ***4)** main zone	0 1 2 3 4	not present zone 1 zone 2 ***1)** zone 3 ***2)** zone 4 ***3)**
		IS 3 not applicable		
n+1	user x input 2	IS 0,1,2,3 not applicable		
n+2	user x input 3	IS 0,1,2,3 not applicable		
n+3	user x input 4	IS 0,1,2,3 not applicable		
n+4	user x input 5	IS 0,1,2,3 not applicable		

*1) not available with 561-MB8
*2) not available with 561-MB8 and MB16
*3) not available with 561-MB16, MB8 and HB48
*4) available starting version E015.03/.07.0V01.02, E015.04.0V06.00, E015.05.0V05.00, E015.06.0V04.00

BUS-2 user Identkey-operating unit and Identkey-lock

I/O device-		Input states	Function value-	
No.	Name		No.	Name
n	user x input 1	IS 0,1,2,3 not applicable	0 1	
n+1	user x input 2	IS 0 release opening contact	0 1	off on
		IS 1 alarm opening contact	0 1	off on
		IS 2 ***4)** main zone opening contact	0 1 2 3 4	not present zone 1 zone 2 ***1)** zone 3 ***2)** zone 4 ***3)**
		IS 3 ***4)** secondary zone opening contact	0 1 15	no secondary zone secondary zone 1 ... secondary zone 15
n+2	user x input 3	IS 0 release RSG-contact	0 1	off on
		IS 1 alarm RSG	0 1	off on
		IS 2 ***4)** Main zone RSG-contact	0 1 2 3 4	not present zone 1 zone 2 ***1)** zone 3 ***2)** zone 4 ***3)**
		IS 3 ***4)** secondary zone RSG-contact	0 1 15	no secondary zone secondary zone 1 ... secondary zone 15
n+3	user x input 4	IS 0,1,2,3 not applicable		
n+4	user x input 5	IS 0,1,2,3 not applicable		

*1) not available with 561-MB8
*2) not available with 561-MB8 and MB16
*3) not available with 561-MB16, MB8 and HB48
*4) available starting version E015.03/.07.0V01.02, E015.04.0V06.00, E015.05.0V05.00, E015.06.0V04.00

10. User -Stati Databus-string

I/O device-		Input states	Function value-	
No.	Name		No.	Name
892	user 0 databus	IS 0 tamper of cover	0 1	off on
		IS 1 addressing	0 1	ok on trouble
		IS 2 ***1)** mains fault	0 1	off on
		IS 3 ***1)** trouble	0 1	off on
		IS 4 ***1)** trouble	0 1	off on
893	user 1 databus	IS 0 tamper of cover	0 1	off on
		...	...	...
o o o o				
955	user 63 databus	IS 0 tamper of cover	0 1	off on
		IS 1 addressing	0 1	ok on trouble
		IS 2 ***1)** mains trouble	0 1	off on
		IS 3 ***1)** trouble	0 1	off on
		IS 4 ***1)** trouble	0 1	off on

*1) available starting version E015.03/.07.0V02.00, E015.04.0V06.00, E015.05.0V05.00 E015.06.0V04.00

Configurations-Text:

Bus2_Status_TInxx : B2_S_TIn(00xxx);

I/O type: 892-955 Bus2-Input module MB100/16/8

11. User-Stati IBUS-users

I/O device-		Input states	Function value-	
No.	Name		No.	Name
956 ***1)**	user 1 I-Bus	IS 0 type of user	0 1 2 3 4 5 6 7 8 9	not present group detector bus I/O keyboard not in use (05) AWUG DS7500 DGA2400
		IS 1 addressing	0 1	ok error
		IS 2 trouble Eprom/RAM	0 1	off on
		IS 3 trouble 1	0 1	off on
		IS 4 trouble 2	0 1	off on
		IS 5 trouble 3	0 1	off on
		IS 6 trouble 4	0 1	off on
		IS 7 trouble 5	0 1	off on
957 ***1)**	user 2 I-Bus	IS 0 type of user	0	not present ...
o o o o				
963 ***1)**	user 8 I-Bus	IS 5 trouble 3	0 1	off on
		IS 6 trouble 4	0 1	off on
		IS 7 trouble 5	0 1	off on

*1) not available with 561-MB8 and HB48

Configurations-Text:
Error_IBUS_Tln_x : SY_IBUS(009xx);

I/O type: 956-963 User IBUS 256

12. Controllable outputs

Up to version E015.00.0V05.x there are max. 10 controllable outputs available.
(incl. I/O 973).

I/O device-		Input states/ Output states	Function value-	
No.	Name		No.	Name
964	IGIS output 1	OS 0 switching	0 1	off on
		IS 0 alarm	0 1	off on
965	IGIS output 2	OS 0 switching	0 1	off on
		IS 0 alarm	0 1	off on
O O O O				
1043	IGIS output 80	OS 0 switching	0 1	off on
		IS 0 alarm	0 1	off on

Configurations-Text:

IGIS_Control_Offgxx : IG_Offg(0xxxx);

I/O type: 964 - 1043 IGIS Output IGIS MB100/16/8

13. Remote inputs

(not available with program versions E015.00.0V01...V05.3)

Remote inputs can influence groups (via IGIS). Allocation to the groups is fixed. The function of remote inputs corresponds to that of the input detector bus (BUS-1) and databus (BUS-2) users.

I/O device-		Input states/ Output states	Function value-	
No.	Name		No.	Name
1044	IGIS remote input 1	OS 0 switch	0 1	off on
		IS 0 alarm	0 1	off on
		IS 1 switch	0 1	off on
1045	IGIS remote input 2	OS 0 switch	0 1	off on
		O O O O		
1147	IGIS remote input 104	IS 1 alarm	0 1	off on

Group allocation:
Via the menue "Detector group offset for the remote inputs" in the programming function 517 you can define to which zone of detector groups the remote inputs may be allocated. Always 8 remote inputs are allocated to a detector group. The following table shows the allocation:

IGIS remote input -> allocated to detector group - default setting

1 - 8 ->	detector group - Offset+0	- 80
9 - 16 ->	detector group - Offset+1	- 81
17 - 24 ->	detector group - Offset+2	- 82
25 - 32 ->	detector group - Offset+3	- 83
33 - 40 ->	detector group - Offset+4	- 84
41 - 48 ->	detector group - Offset+5	- 85
49 - 56 ->	detector group - Offset+6	- 86
57 - 64 ->	detector group - Offset+7	- 87
65 - 72 ->	detector group - Offset+8	- 88
73 - 80 ->	detector group - Offset+9	- 89
81 - 88 ->	detector group - Offset+10	- 90
89 - 96 ->	detector group - Offset+11	- 91
97 - 104 ->	detector group - Offset+12	- 92

Configurations-Text:
IGIS_remote_inputxxx : IG_Eing(0xxxx);

I/O type: 964-1043 remote input IGIS MB100/16/8

14. Identkey last received

(available starting version E015.XX.0V08)

I/O device-		Input states	Function value-	
No.	Name		No.	Name
1148	last key of switching device 1	IS 2 ***2)** last key tens	0 ***2)** to 5	key number value 10^1
	***1)**	IS 3 ***2)** last key one	0 ***2)** to 9	key number value 10^0
		IS 4 last action	1	nothing
			2	activated
			3	deactivated
			4	deactivated + door free
			5	door free
			6	locked
			7	unlocked
			8	unknown
			9	zone armed internal
		O O O O		
1163	last key of switching device 16	IS 2 ***2)** last key tens	0 ***2)** to 5	key number value 10^1
	***1)**	IS 3 ***2)** last key one	0 ***2)** to 9	key number value 10^0
		IS 4 last action	O	nothing
			1	activated
			2	deactivated
			3	deactivated + door free
			4	door free
			5	locked
			6	unlocked
			7	unknown
			8	zone armed internal

*1) For the central unit HB48 the number of switching devices is limited to eight.
=>I/O 1157-1164 not available.

*2) Number of programmable keys :

Central unit MB8	(E015.05.0V0XX) :	20 keys
Central unit MB16	(E015.06.0V0XX) :	20 keys
Central unit MB100	(E015.07.0V0XX) :	50 keys
Central unit HB48	(E015.08.0V0XX) :	24 keys

Configurations-Text:
Identkey_Schluesselxx : ID_SL(0xxxx).

I/O type: 1148 - 1163 Identkey (last received)

2.5 Connection of the control unit 561-MB100.10 / MB48 to the IGIS-network

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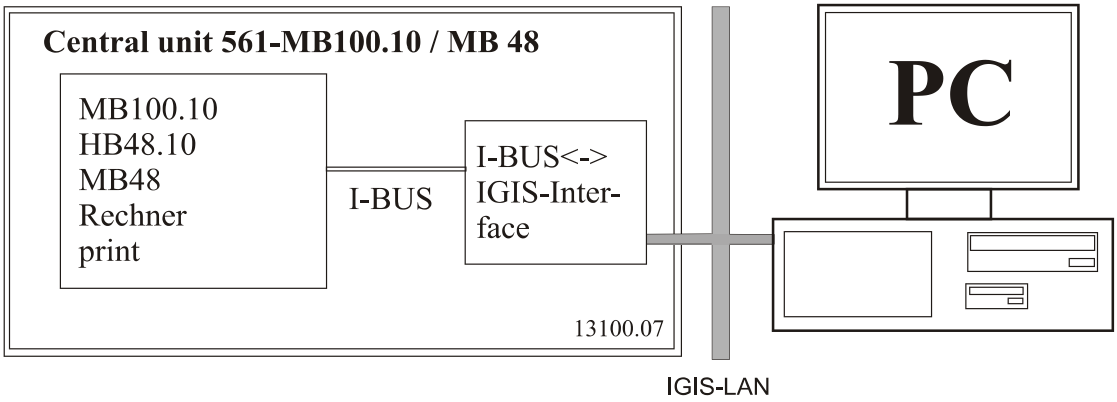
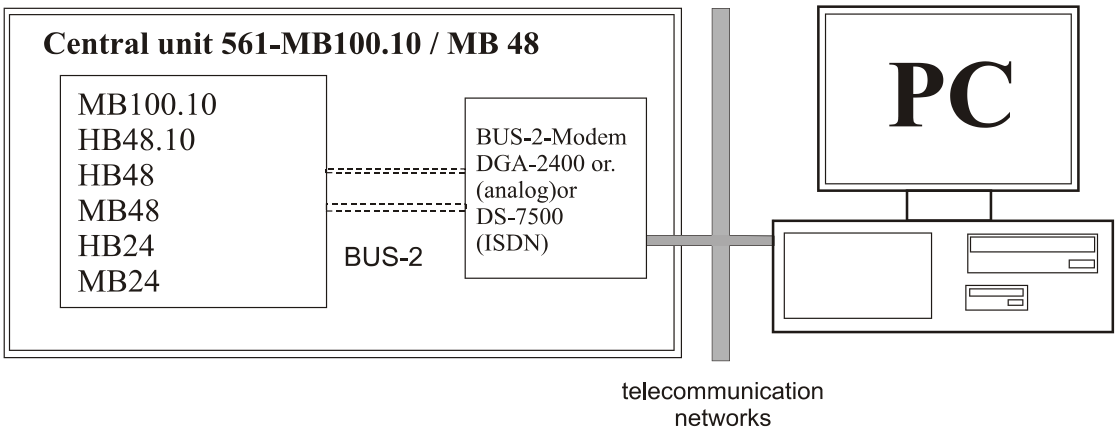
4 Performance features of the new central unit generation 561-HB/MB 128

1. Possible configurations of the system

1.1 System connection via the IGIS-LAN-Net



1.2 System connection via the telecommunication networks



2. Communication with the IGIS-Netz

The Description "Connection of IGIS devices to the IGIS net" gives more information about the Communication with the IGIS-net.

2.1 Access code

A special access code for IGIS is available for the commands INIT_MP and SET_FILT.
This special code is entered in the M100 / HB48.10 using the programming function 517.

2.2 Tamper message

Using the function 517 you can program at the central unit whether or not a tamper message shall be triggered if a wrong access code has been entered .
If "Tamper if code incorrect" is active, triggering of a tamper message is executed
if a wrong access code has been entered 9 times or if a wrong password has been transmitted.

For systems designed as per VdS directives,
"Tamper if code incorrect" may not be active otherwise the central unit
is no longer nonreactive in relation to IGIS.

2.3 Programming "Extern switching"

Using function 517 you can program at the central unit 561-MB100 / HB48.10 whether or not switching actions that influence external arming of the central unit are permitted via IGIS.

If programming of "Extern switching by IGIS" is set to "NO", the following switching actions are not permitted :
- External arming of zones
- External disarming of zones.
- External deactivating of detector groups
- Clearing of detector groups with external arming.
- Clearing of tamper alarms.
- Clearing of intrusion alarms with external arming main zone via the I/O devices
  Pos. 4 Main zones 1...16 IS 0).

With units designed as per VdS directives, "Extern switching by IGIS"
must be set to "NO" as otherwise the central unit is not nonreactive

3. I/O-devices

3.1. Tamper loudspeaker, flashing lamp

I/O device-		Input states	Function value-	
No.	Name		No.	Name
1	loudspeaker	IS 0 tamper	0 1	ok released (stored)
2	flashing lamp	IS 0 tamper	0 1	ok released (stored)

I/O number:
I/O- start: 1
I/O- end: 2

	I/O-type		Parameter-IDs	
I/O device No.	Name	I/O device-ID		
1	System tamper MB100.10	300010001		
2	System tamper MB100.10	300010001		

3.2 System malfunctions

I/O device-		Input states	Function value-	
No.	Name		No.	Name
3	energy supply	IS 0	0 1	off on
		IS 1 storage	0 1	off on
		IS 2 AC	0 1	off on
4	clock	IS 0 clock running	0 1	running stopped
5	processor	IS 0 trouble Eprom, RAM Non-vol.. RAM Config. I-BUS	0 1	off on
6 *1)	printer parallel port	IS 0 Progr.	0 1	not present present
		IS 1 general trouble	0 1	ok on trouble
		IS 2 paper	0 1	ok empty
7 *2)	printer serial port	IS 0 programming	0 1	not present present
		IS 1 general trouble	0 1	ok on trouble
		IS 2 paper	0 1	ok empty

***1)** not available for central unit types without printer port

***2)** not yet available

I/O number:
I/O- start: 3
I/O- end: 7

	I/O-type		Parameter-IDs	
I/O device No.	Name	I/O device-ID		
3	system energy trouble	300010010		
4	clock running MB100.10	300010011		
5	processor trouble MB100.10	300010012		
6	system printer state MB100.10	300010013		
7	system printer state MB100.10	300010013		

3.3 Switching devices

I/O device-		Input states	Function value-	
No.	Name		No.	Name
I/O- start = 8	switching device 1			not present
				not present
		IS 2 switching position	0 1 2	open closed not present
		IS 3 operation possible	0 1	yes no
		IS 4 tamper housing	0 1	off on
		IS 5 ***4)** tamper line	0 1	off on
		IS 6 ***5)** adressing	0 1	ok on trouble
		IS 7 ***6)** tamper door break	0 1	off on
I/O- start +1	switching device 2			not present ...
		...	...	...
O O O O				
I/O- start +63	switching device 64	...	...	...
		IS 7 ***6)** tamper door break	0 1	off on

Central control unit types with less possible main zones have correspondingly less I/O devices.

*4) - Line tampering (armed resp. disarmed input) via switching device connected to the analog channel.

- Line tampering between the Identkey evaluation unit and the Identkey operating unit resp., the Identkey block lock, if the switching device is connected to bus2.

*5) Only if a switching device is connected to a bus.

*6) This I/O device state serves the display of unauthorized door opening if an ACS-1 is connected.

I/O number:
I/O- start: 8
I/O- end: 23 at central unit HB48.10 (16 switching devices)
71 at central unit MB100.10 (64 switching devices)

	I/O-type		**Parameter-IDs**	
I/O device No.	**Name**	**I/O device-ID**	**Main zone**	**Secondary zone**
I/O- start **= 8**	switching device MB100.10	300010021	hh ***2)** (zone of switching device)	uu ***2)** (zone of switching device)
...	...	...	...	...
I/O- start +63	switching device MB100.10	300010021	hh ***2)** (zone of switching device)	uu ***2)** (zone of switching device)

***2)** hh Main zone 1-16 at MB100.10, 1 - 4 at HB48.10
uu Secondary zone 0-63 at MB100.10, 0 - 15 at HB48.10

3.4 Main zones 1...16

I/O device- No.	Name	Input states	Function value- No.	Name
I/O- start =72	Main zone 1	IS 0 activation status	0 1 2 3	disarmed internally armed externally armed not present
		IS 1 alarm	0 1	off on
		IS 2 hold-up alarm	0 1	off on
		IS 3 tamper alarm	0 1	off on
		IS 4 trouble	0 1 2 ***3)** 3 ***3)** 4 ***3)** 5 ***3)** 6 ***3)** 7 ***3)** 8 ***3)** 9 ***3)** 10 ***3)** 11 ***3)** 12 ***3)** 13 ***3)** 14 ***3)** 15 ***3)**	no malfunction malfunction 1x externally blocked blocked + 1x externally mains mains + 1x externally mains + mains + + 1x ext. other malfunction other malfunction + 1x other malfunction + mains other malfunction + mains + 1x other malf. + mains + o. malf. + mains + + 1x
		IS 5 arming possible positive drive	0 1 2 3	no internally externally internally and externally
		IS 6 buzzer	0 1	off on
		OS 0 switch	0 1 2 3 4 5	disarmed armed internally delayed armed internally delete armed externally delete tamper
		OS 1 switch buzzer	0	off
I/O- start +1	Main zone 2	IS 0 activation status	0 1 2	disarmed internally armed externally armed
		...	...	...
I/O- start +2	Main zone 3	...	...	...
I/O- start +3 to I/O- start + 14	Main zone 4..15	...	...	...
I/O- start +15	Main zone 16	...	...	...
		OS 1 switch buzzer	0	stop alarm & switch buzzer off

*) Central control unit types with less possible main zones have correspondingly less I/O devices.

I/O number:
I/O- start: 72
I/O- end: 87

	I/O-type		Parameter-IDs	
I/O device No.	**Name**	**I/O device-ID**	**Main zone**	**Secondary zone**
I/O- start = 72	Main zone MB100.10	300011071	hh ***2)**	**O**
...	...	...	...	...
I/O- start+15	Main zone MB100.10	300011071	hh ***2)**	**O**

***2)** hh Main zone 1-16

3.5 Secondary zones

I/O device-		Input states	Function value-	
No.	Name		No.	Name
I/O- start =88	Main zone 1	IS 0 activation status	0 1 2	disarmed internally armed externally armed
	Secondary zone 1	IS 1 alarm	0 1	off on
		IS 2 positive drive	0 1	not possible possible
		IS 3 tamper alarm	0 1	off on
		IS 4 intrusion alarm	0 1	off on
		IS 7 hold-up, taking hostages	0 1	off on
		OS 0 switch	0 1 2 3 4 5	disarm arm internally - clear - clear tamper
O O O O				
I/O- start +62	Main zone 1	IS 0 activation status	0 1 2	disarmed internally armed externally armed
	Secondary zone 63 ***4)**	IS 1 alarm	0 1	off on
		IS 2 positive drive	0 1	not possible possible
		OS 0 switch	0 1 2 3 4 5	disarm arm internally - clear - clear tamper

***4)** Central control unit types with less possible secondary zones for each main zone have correspondingly less I/O devices.

main zone	I/O- start of other secondary zones	number of I/O devices per secondary zone
2	I/O- start +63 ***1)**	63 ***1) *4)**
3	I/O- start +126 ***2)**	63 ***2) *4)**
4	I/O- start +189 ***3)**	63 ***3) *4)**
5	I/O- start +252 ***3)**	63 ***3) *4)**
6	I/O- start +315 ***3)**	63 ***3) *4)**
7	I/O- start +378 ***3)**	63 ***3) *4)**
8	I/O- start +441 ***3)**	63 ***3) *4)**
9	I/O- start +504 ***3)**	63 ***3) *4)**
10	I/O- start +567 ***3)**	63 ***3) *4)**
11	I/O- start +630 ***3)**	63 ***3) *4)**
12	I/O- start +793 ***3)**	63 ***3) *4)**
13	I/O- start +756 ***3)**	63 ***3) *4)**
14	I/O- start +819 ***3)**	63 ***3) *4)**
15	I/O- start +882 ***3)**	63 ***3) *4)**
16	I/O- start +945 ***3)**	63 ***3) *4)**

***1)** not available for central control unit types with less than 2 main zones

***2)** not available for central control unit types with less than 3 main zones

***3)** not available for central control unit types with less than 4 main zones

***4)** for central units with less secondary zones the number of I/O devices per secondary zone is the same as the total of secondary zones

I/O number:
I/O- start: 88
I/O- end: 1095

	I/O-type		**Parameter-IDs**	
I/O device No.	**Name**	**I/O device-ID**	**Main zone**	**Secondary zone**
I/O- start **= 88**	secondary zone MB100 / MB16	300010040	hh *2)	uu *4)
...	...	...	...	...
I/O- start+945	secondary zone MB100 / MB16	300010040	hh *2)	uu *4)

***4)** hh Main zone 1-16

uu Secondary zone 0-63

New I/O - ID for MB100.10, MB48, HB48.10, MB24, HB24 from version:

EM100.00.0V07.nn

EM100.01.0V07.nn

	I/O-type		**Parameter-IDs**	
I/O device No.	**Name**	**I/O device-ID**	**Main zone**	**Secondary zone**
I/O- start **= 88**	secondary zone MB100.10	300010039	hh ***2)**	uu ***2)**
...	...	...	...	...
I/O- start+945	secondary zone MB100 / MB16	300010039	hh ***2)**	uu ***2)**

***2)** hh Main zone 1-16

uu Secondary zone 0-63

3.6 Groups

I/O device-		Input states	Function value-	
No.	Name		No.	Name
I/O- start =1101	input states 01	IS 0 condition	0	ok
			1	released
			2	not present
		IS 1 alarm	0	off
			1	on
		IS 2 internal blocking	0	off
			1	on
		IS 3 external blocking	0	off
			1	on
		IS 4 tamper cover and/or addressing	0	off
			1	on
		IS 5 main zone	0	MZ 1
			1	MZ 2
			2	MZ 3
			3	MZ 4
			4	MZ 5
			5	MZ 6
			6	MZ 7
			7	MZ 8
			8	MZ 9
			9	MZ 10
			10	MZ 11
			11	MZ 12
			12	MZ 13
			13	MZ 14
			14	MZ 15
			15	MZ 16 or higher up
		IS 5 secondary zone	0	SZ 1
			1	SZ 2
			2	SZ 3
			3	SZ 4
			4	SZ 5
			5	SZ 6
			6	SZ 7
			7	SZ 8
			8	SZ 9
			9	SZ 10
			10	SZ 11
			11	SZ 12
			12	SZ 13
			13	SZ 14
			14	SZ 15
			15	SZ 16 or higher up

	control function group 01	OS 0 internal blocking	0 1	off on
		OS 1 external blocking	0 1	off on
		OS 2 erase	0	erase
I/O- start + 511	...	...	...	...
	control function group 512	OS 2 delete	0	delete

*) Central control unit types with less possible detector groups have correspondingly less I/O devices.

I/O number:
I/O- start: 1101
I/O- end: 1612

	I/O-type		Parameter-IDs	
I/O device No.	**Name**	**I/O device-ID**	**Main zone**	**Secondary zone**
I/O- start =1101	group intrusion MB100.10	300011101	hh ***2)** (zone of group)	uu ***2)** (zone of group)
	group intrusion filtered ***3)**	300011142		
	tamper group MB100.10 ***4)**	300011143		
	hold up group MB100.10 ***5)**	300011144		
	locking group MB100.10 ***6)**	300011172		
	group intrusion without alarm ***7)**	300011180		
	group technical alarm MB100.10 ***8)**	300011183		
	group fire MB100.10 ***9)**	300011185		
...	...	...	...	...
I/O- start +511	group intrusion MB100.10	300011101	hh ***2)** (zone of group)	uu ***2)** (zone of group)
	group intrusion filtered ***3)**	300011142		
	tamper group MB100.10 ***4)**	300011143		
	hold up group MB100.10 ***5)**	300011144		
	locking group MB100.10 ***6)**	300011172		
	group intrusion without alarm ***7)**	300011180		
	group technical alarm MB100.10 ***8)**	300011183		
	group fire MB100.10 ***9)**	300011185		

*2) hh Main zone 1-16
uu Secondary zone 0-63

*3) Changed state 0 is filtered

*4) Changed state 1 tamper alarm (off / on (62))

*5) Changed state 1 attack-alarm (off / on (63))

*6) Changed state 0 lock (closed (28) / open (28), not present)

*7) Changed state 1 alarm (ein) without associated alarm reason

*8) Changed state 1 technic-alarm (off / on (24))

*9) Changed state 0 state (ok / technical malfunction (161)/ not present)
Changed state 1 alarm (off / on) (27)

*10) I/O types without range information are increased by 100 respectively from E 0V03.00 onwards.

The filtered groups are additionally contained without zones in WINMAG.

3.7 Inputs 1 - 56 with analog resistance measurement

I/O device-		Input states	Function value-	
No.	Name		No.	Name
I/O- start =1618	Input 1	IS 0 physical situation	0	resistor zone 1 (short circuit)
			1	resistor zone 2 (short circuit)
			2	resistor zone 3 (ok)
			3	resistor zone 4 (rupture)
			4	resistor zone 5 (rupture)
		IS 1 alarm	0	off
			1	on
		IS 2 *1) main zone	0	MZ 1
			1	MZ 2
			2	MZ 3
			3	MZ 4
			4	MZ 5
			5	MZ 6
			6	MZ 7
			7	MZ 8
			8	MZ 9
			9	MZ 10
			10	MZ 11
			11	MZ 12
			12	MZ 13
			13	MZ 14
			14	MZ15
			15	MZ 16 or higher up
		IS 3 *1) secondary zone	0	SZ 1
			1	SZ 2
			2	SZ 3
			3	SZ 4
			4	SZ 5
			5	SZ 6
			6	SZ 7
			7	SZ 8
			8	SZ 9
			9	SZ 10
			10	SZ 11
			11	SZ 12
			12	SZ 13
			13	SZ 14
			14	SZ15
			15	SZ 16 or higher up
I/O- start +1	Input 2	IS 0 physical situation	0	resistor zone 1 (short circuit)
			1	resistor zone 2 (short circuit)
				...
		...	...	...
I/O- start +55	Input 56	...	...	...
		IS 1 alarm	0	off
			1	on

		IS 3 *1) secondary zone	0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	SZ 1 SZ 2 SZ 3 SZ 4 SZ 5 SZ 6 SZ 7 SZ 8 SZ 9 SZ 10 SZ 11 SZ 12 SZ 13 SZ 14 SZ15 SZ 16 or higher up

*) unit types with less possible analog inputs have correspondingly less I/O devices.

Notes:
1) Input 17 to input 22 (I/O- start+16 - I/O- start+21) are not available if the first expansion board is a 2 BSA/10-MGE module.
2) Input 33 to input 38 (I/O- start+32 - I/O- start+37) are not available if the second expansion board is a 2 BSA/10-MGE module.
3) Inputs 49 to 54 (I/O- start+48 - I/O- start+53) are not available if the third expansion board is a 2 BSA/10-MGE module.

I/O number:
I/O- start: 1618
I/O- end: 1673

	I/O-type		**Parameter-IDs**	
I/O device No.	**Name**	**I/O device-ID**	**Main zone**	**Secondary zone**
I/O- start	analog-input MB100.10	300011110	hh ***2)*** (zone of group)	uu ***2)*** (zone of group)
...	...	...	...	...
I/O- start+55	analog-input detector group MB100.10	300011110	hh ***2)*** (zone of group)	uu ***2)*** (zone of group)

1) From E 0V03.00 I/O types without the zone information are scaled up each by 100.

2) hh Main zone 1-16
uu Secondary zone 0-63

3.8 User BUS-1 string 1 - string 9

I/O device-		Input states	Function value-	
No.	Name		No.	Name
I/O- start =1674	BUS-1 string 1 user 1 ***5)**	IS 0 release	0 1	off on
		IS 1 intruder alarm	0 1	off on
		IS 2 tamper released	0 1	off on
		IS 3 tamper alarm	0 1	off on
		IS 4 addressing	0 1	ok on trouble
		IS 5 ***1)** main zone	0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	MZ 1 MZ 2 MZ 3 MZ 4 MZ 5 MZ 6 MZ 7 MZ 8 MZ 9 MZ 10 MZ 11 MZ 12 MZ 13 MZ 14 MZ 15 MZ 16 or higher up
		IS 6 ***1)** secondary zone	0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	SZ 1 SZ 2 SZ 3 SZ 4 SZ 5 SZ 6 SZ 7 SZ 8 SZ 9 SZ 10 SZ 11 SZ 12 SZ 13 SZ 14 SZ 15 SZ 16 or higher up
O O O O				
I/O- start + 62	BUS-1 string 1	...		...
	user 63 ***5)**	IS 6 ***1)** secondary zone	0 1	no secondary zone secondary zone 1 .....

The I/O type indicated above is 300011150.
300011250 is identical except of the zone states.

***5)** Special monitoring states possible for operation unit-modules, door-modules, radio-modules and alarming-modules (see next pages - see also "BUS-1" Installation and Programming Instructions 561-MB100).

User BUS-1 string	**2:**	I/O- start + 63 to I/O- start + 125 ***3)**
" "	**3:**	I/O- start + 126 to I/O- start + 188 ***3)**
" "	**4:**	I/O- start + 189 to I/O- start + 251 ***3)**
" "	**5:**	I/O- start + 252 to I/O- start + 314 ***3)**
" "	**6:**	I/O- start + 315 to I/O- start + 377 ***3)**
" "	**7:**	I/O- start + 378 to I/O- start + 440 ***3)**
" "	**8:**	I/O- start + 441 to I/O- start + 503 ***3)**
" "	**9:**	I/O- start + 504 to I/O- start + 566 ***3)**

***3)** Not available for central control unit types without IBUS and/or possible connection of the BUS-1 Interface

I/O number:
I/O- start: 1674
I/O- end: 2240

	I/O-type		**Parameter-IDs**	
I/O device No.	**Name**	**I/O device-ID**	**Main zone**	**Secondary zone**
I/O- start =1674	BUS-1 user MB100.10 BUS-1 user MB100.10 without zone	3,0001e + 17	hh ***2)** (zone of detector group)	ggg ***2)** (detector group)
...	...	...	...	...
I/O- start +556	BUS-1 user MB100.10	300011150	hh ***2)** (zone of detector group)	ggg ***2)** (detector group)

***2)** hh Main zone1-16
ggg Groups 0-512

BUS-1 user “operating module”

The user “operating module” occupies 2 addresses on BUS-1 and thus also 2 I/O devices (n, n+1). Only the BUS-1 addresses 1, 5, 9,..can be occupied by operating modules.
Thus, it is automatically the case that only specific I/O devices can be used for operating module (e. g. with string 1 I/O I/O- start and I/O- start+1, I/O- start+4 and I/O- start+5, I/O- start+8 and I/O- start+9 ...).

I/O device-		Input states	Function value-	
No.	Name		No.	Name
n	BUS-1 string x user y	IS 0 not applicable	0 1	
		IS 1 not applicable	0 1	
		IS 2 tamper released	0 1	off on
		IS3 tamper alarm	0 1	off on
		IS 4 addressing	0 1	ok on trouble
		IS 5 ***1)** main zone	0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	MZ 1 MZ 2 MZ 3 MZ 4 MZ 5 MZ 6 MZ 7 MZ 8 MZ 9 MZ 10 MZ 11 MZ 12 MZ 13 MZ 14 MZ 15 MZ16 or higher up
n+1	BUS-1 string x user y+1	IS 0,1,2,3 not applicable	0 1	
		IS 4 addressing	0 1	ok on trouble

The I/O type indicated above is 300011151.

For I/O-type 300011152 the states 0 to 3 are not applicable and additionally state 6 with the secondary zones is contained.

	I/O-type		Parameter-IDs	
I/O device No.	**Name**	**I/O device-ID**	**Main zone**	**Secondary zone**
n	BUS-1 user interface MB100.10	300011151	hh ***2)** (zone to IS 2, 3, 4)	uu ***2)** (zone to IS 2, 3, 4)
n+1	BUS-1 addressing MB100.10	300011152	hh ***2)** (zone to IS 4)	uu ***2)** (zone to IS 4)

***2)** hh Main zone 1-16
uu Secondary zone 0-63

BUS-1 user "door module"

The door module occupies 3 addresses on BUS-1 and thus also 3 I/O devices (n,n+1,n+2).
Only the BUS-1 addresses 1, 5, 9,... can be occupied by door modules. Thus, it is automatically the case that only specific I/O devices can be used for door modules (e. g. with string 1
I/O- start and I/O- start+1 and I/O- start+2, I/O- start+4 and I/O- start+5 and I/O- start+6,
I/O- start+8 and I/O- start+9 and I/O- start+10...).

I/O device-		Input states	Function value-	
No.	Name		No.	Name
n	BUS-1 string x user y	IS 0 release opening contact	0 1	off on
		IS 1 alarm opening contact	0 1	off on
		IS 2 tamper released	0 1	off on
		IS 3 tamper alarm	0 1	off on
		IS 4 addressing	0 1	ok on trouble
		IS 5 main zone	0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	MZ 1 MZ 2 MZ 3 MZ 4 MZ 5 MZ 6 MZ 7 MZ 8 MZ 9 MZ 10 MZ 11 MZ 12 MZ 13 MZ 14 MZ 15 MZ 16 or higher up
		IS 6 secondary zone	0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	SZ 1 SZ 2 SZ 3 SZ 4 SZ 5 SZ 6 SZ 7 SZ 8 SZ 9 SZ 10 SZ 11 SZ 12 SZ 13 SZ 14 SZ 15 SZ 16 or higher up

n+1	BUS-1 string x user y+1	IS 0,1,2,3 not applicable	0 1	
n+2	BUS-1 string x user y+2	IS 0 lock release	0 1	present not present
		IS 1 not applicable	0 1	
		IS 2 release RSK	0 1	off on
		IS 3 not applicable	0 1	off on
		IS 4 addressing	0 1	ok on trouble
		IS 5 main zone	123 456 789 101 112 170 000	MZ 1 MZ 2 MZ 3 MZ 4 MZ 5 MZ 6 MZ 7 MZ 8 MZ 9 MZ 10 MZ 11 MZ 12 MZ 13 MZ 14 MZ 15 MZ 16 or higher up
		IS 6 secondary zone	123 456 789 101 112 170 000	SZ 1 SZ 2 SZ 3 SZ 4 SZ 5 SZ 6 SZ 7 SZ 8 SZ 9 SZ 10 SZ 11 SZ 12 SZ 13 SZ 14 SZ 15 SZ 16 or higher up

	I/O-type		Parameter-IDs	
I/O device No.	**Name**	**I/O device-ID**	**Main zone**	**Secondary zone**
n	BUS-1 door module 1 MB100.10	300011153	hh ***2)** (zone to IS 0, 1)	uu ***2)** (zone to IS 0, 1)
n+1	BUS-1 addressing MB100.10	300011152	-----	-----
n+2	BUS-1 door module 1 2 MB100.10	300011154	hh ***2)** (zone to IS 2)	uu ***2)** (zone to IS 2)

***2)** hh Main zone1-16
uu Secondary zone 0-63

BUS-1 user "radio-module"

The door module reserves 4 addresses of BUS-1 and therefore also 4 I/O devices (n,n+1,n+2,n+3).

I/O device-		Input states	Function value-	
No.	Name		No.	Name
n	BUS-1 string x user y	IS 0 release wireless detector	0 1	off on
		IS 1 alarm release wireless detector	0 1	off on
		IS 2 tamper released	0 1	off on
		IS 3 tamper alarm	0 1	off on
		IS 4 addressing	0 1	ok on trouble
n+1	BUS-1 string x user y+1	IS 0 release error	0 1	off on
		IS 1 alarm not applicable	0	off
		IS 2 release wireless detector 2	0 1	off on
		IS 3 alarm wireless detector 2	0 1	off on
		IS 4 addressing	0 1	ok on trouble
n+2	BUS-1 string x user y+2	IS 0 radio transmission disconnection	0 1	off on
		IS 1 alarm radio transmission disconnection	0 1	off on
		IS 2 release wireless detector 3	0 1	off on
		IS 3 alarm wireless detector 3	0 1	off on
		IS 4 addressing	0 1	ok on trouble
n+3	BUS-1 string x user y+3	IS 0 release external signal	0 1	off on
		IS 1 alarm external signal	0 1	off on
		IS 2 release wireless detector 4	0 1	off on
		IS 3 alarm wireless detector 4	0 1	off on
		IS 4 addressing	0 1	ok on trouble

The I/O types indicated above are **WITHOUT** main zone states and secondary zone states !

300011165, 300011166, 300011167 and 300011168 include zone information.

	I/O-type		Parameter-IDs	
I/O device No.	**Name**	**I/O device-ID**	**Main zone**	**Secondary zone**
n	BUS-1 radio module MB100.10	300011165	hh ***2)** (zone to IS 0,1)	uu ***2)** (zone to IS 0,1)
n+1	BUS-1 radio module MB100.10 1	300011166	hh ***2)** (zone to IS 2,3)	uu ***2)** (zone to IS 2,3)
n+2	BUS-1 radio module MB100.10 2	300011167	hh ***2)** (zone to IS 2,3)	uu ***2)** (zone to IS 2,3)
n+3	BUS-1 radio module MB100.10 3	300011168	hh ***2)** (zone to IS 2,3)	uu ***2)** (zone to IS 2,3)

***2)** hh Main zone1-16
uu Secondary zone 0-63

Alarm-modules - valid for the components flashing lamp and loudspeaker

When exporting the I/O devices in by means of WINFEM these I/O-ID cannot be created, because there is no special BUS-1 module type for the alarm-module.
(see also universal connecting module)

I/O device-		Input states	Function value-	
No.	**Name**		**No.**	**Name**
n	BUS-1 string x user y	IS 0 release monitoring	0 1	off on
		IS 1 alarm monitoring	0 1	off on
		IS 2 tamper released	0 1	off on
		IS 3 tamper alarm	0 1	off on
		IS 4 addressing	0 1	ok on trouble

The I/O type indicated above is **WITHOUT** main zone states and secondary zone states !

300011155 include zone information.

	I/O-type		**Parameter-IDs**	
I/O device No.	**Name**	**I/O device-ID**	**Main zone**	**Secondary zone**
N	BUS-1 alarm module MB100.10	300011155	hh ***2)**	uu ***2)** (zone to IS 0,1)

***2)** hh Main zone1-16
uu Secondary zone 0-63

Universal connecting module

I/O device-		Input states	Function value-	
No.	Name		No.	Name
n	BUS-1 string x user y	IS 0 release monitoring	0 1	off on
		IS 1 alarm monitoring	0 1	off on
		IS 2 tamper released	0 1	off on
		IS 3 tamper alarm	0 1	off on
		IS 4 addressing	0 1	ok on trouble

Hold-up module

I/O device-		Input states	Function value-	
No.	Name		No.	Name
n	BUS-1 string x user y	IS 0 release monitoring	0 1	off on
		IS 1 hold-up alarm	0 1	off on
		IS 2 tamper released	0 1	off on
		IS 3 tamper alarm	0 1	off on
		IS 4 addressing	0 1	ok on trouble

Indoor siren-, remote indicator-, switching-module

I/O device-		Input states	Function value-	
No.	Name		No.	Name
n	BUS-1 string x user y	IS 0 not applicable	0 1	
		IS 1 not applicable	0 1	
		IS 2 tamper released	0 1	off on
		IS 3 tamper alarm	0 1	off on
		IS 4 addressing	0 1	ok on trouble

The I/O type indicated above is ID 300011251

3.9 Inputs BUS-2 String 1-8

I/O device-		Input states	Function value-	
No.	Name		No.	Name
I/O- start	BUS-2 string 1, user 0, input 1	IS 0 release	0 1	off on
		IS 1 alarm	0 1	off on
		IS 2 main zone	0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	MZ 1 MZ 2 MZ 3 MZ 4 MZ 5 MZ 6 MZ 7 MZ 8 MZ 9 MZ 10 MZ 11 MZ 12 MZ 13 MZ 14 MZ 15 MZ 16 or higher up
		IS 2 secondary zone	0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	SZ 1 SZ 2 SZ 3 SZ 4 SZ 5 SZ 6 SZ 7 SZ 8 SZ 9 SZ 10 SZ 11 SZ 12 SZ 13 SZ 14 SZ 15 SZ 16 or higher up
I/O- start +1	BUS-2 string 1, user 0, input 2	IS 0 release	0 1	off on
		IS 1 alarm	0 1	off on
I/O- start +2	BUS-2 string 1, user 0, input 3	IS 0 release	0 1	off on
		IS 1 alarm	0 1	off on
I/O- start +3	BUS-2 string 1, user 0, input 4	IS 0 release	0 1	off on
		IS 1 alarm	0 1	off on
I/O- start +4	BUS-2 string 1, user 0, input 5	IS 0 release	0 1	off on
		IS 1 alarm	0 1	off on

I/O- start +5	BUS-2 string 1, user 1, input 1	IS 0 release	0 1	off on
		...	...	...
		O O O O		
I/O- start +319	BUS-2 string 1, user 63, input 5	...	0 1	...
		IS 1 intruder alarm	0 1	off on

User BUS-2 string	**2:**	I/O- start + 320 to I/O- start + 639	***3)**
" " "	**3:**	I/O- start + 640 to I/O- start + 959	***3)**
" " "	**4:**	I/O- start + 960 to I/O- start + 1279	***3)**
" " "	**5:**	I/O- start + 1280 to I/O- start + 1599	***3)**
" " "	**6:**	I/O- start + 1600 to I/O- start + 1919	***3)**
" " "	**7:**	I/O- start + 1920 to I/O- start + 2239	***3)**
" " "	**8:**	I/O- start + 2240 to I/O- start + 2559	***3)**

***3)** not available for central control unit types without IBUS and /or possible connection of the BUS-2 Interfaces.

Formula for calculating the appropriate I/O device:
I/O(STR,user,EING) = |I/O- start| + (STR-1)*64*(TLN)*5 +(EING-1)

Legende:
I/O =I/O device number, I/O- start = I/O device start value, STR = String,TLN = user -number,
EING = input number

General

Five I/O devices are reserved in ascending order for each BUS-2 user. Caused by the user WINFEM only exports physically existing I/O devices. From one user (input 1) to the next user (input 1) there is always a I/O device offset of +5.

I/O number:
I/O- start: 2241
I/O- end: 4800

	I/O-type		Parameter-IDs	
I/O device No.	**Name**	**I/O device-ID**	**Main zone**	**Secondary zone**
I/O- start =2241	BUS-2 input module MB100.10 with zone	300011160	hh ***2)** (zone of detector group (IS0,1)	uu ***2)** (zone of detector group (IS0,1)
...	...	...	...	...
I/O- start+2559	BUS-2 input module MB100.10	300011160	hh ***2)** (zone of detector group (IS0,1)	uu ***2)** (zone of detector group (IS0,1)

***2)** hh Main zone1-16
uu Secondary zone 0-63

On the next pages you see the BUS-2 users, which differ from the described rule.

Note: BUS-2 status messages for addressing, cover tamper, tear-off protection, power, and accu-failure are transferred by separate I/O devices.
See also section "User-Stati BUS-2 String 1-8".

BUS-2 user spektron, dektron and ultrasonic detector

I/O device-		Input states	Function value-	
No.	Name		No.	Name
n	+user x	IS 0 release	0 1	off on
	input 1	IS 1 intruder alarm	0 1	off on
n+1	BUS-2 string y user x input 2	IS 0,1 not applicable	0 1	
n+2	BUS-2 string y user x input 3	IS 0,1 not applicable	0 1	
n+3	BUS-2 string y user x input 4	IS 0,1 not applicable	0 1	
n+4	BUS-2 string y user x input 5	IS 0,1 not applicable	0 1	

	I/O-type		Parameter-IDs	
I/O device No.	Name	I/O device-ID	Main zone	Secondary zone
n	BUS-2 input module MB100.10	300011160	hh ***2)** (zone of detector group (IS 0,1)	uu ***2)** (zone of detector group (IS 0,1)
n+1	BUS-2 string y user x input 2 MB100.10		**-----**	-----
n+2	BUS-2 string y user x input 3 MB100.10		**-----**	-----
n+3	BUS-2 string y user x input 4 MB100.10		**-----**	-----
n+4	BUS-2 string y user x input 5 MB100.10		**-----**	**-----**

***2)** hh Main zone1-16
uu Secondary zone 0-63

BUS-2 user 5-output module, user interfaces, telephone dialling device, RF-transceiver

I/O device-		Input states	Function value-	
No.	Name		No.	Name
n	BUS-2 string y user x input 1	IS 0,1 not applicable	0 1	
n+1	BUS-2 string y user x input 2	IS 0,1 not applicable	0 1	
n+2	BUS-2 string y user x input 3	IS 0,1 not applicable	0 1	
n+3	BUS-2 string y user x input 4	IS 0,1 not applicable	0 1	
n+4	BUS-2 string y user x input 5	IS 0,1 not applicable	0 1	

For these users no output state is resulting

	I/O-type		Parameter-IDs	
I/O device No.	Name	I/O device-ID	Main zone	Secondary zone
n - n+4	nit relevant		...	...

BUS-2 user identkey-operating unit, identkey-lock, Identkey_IK2

I/O device-		Input states	Function value-	
No.	Name		No.	Name
n	BUS-2 string y user x input 1	IS 0,1 not applicable	0 1	
n+1	BUS-2 string y user x input 2	IS 0 release opening contact	0 1	off on
		IS 1 alarm opening contact	0 1	off on
n+2	BUS-2 string y user x input 3	IS 0 release RSG-contact	0 1	off on
		release IS 1 alarm RSG	0 1	off on
n+3	BUS-2 string y user x input 4	IS 0 ***5)** release UMG.	0 1	off on
		IS 1 ***5)** alarm UMG	0 1	off on
n+4	BUS-2 string y user x input 5	IS 0,1 not applicable	0 1	

***5)** only available for IK-2 keyboard

	I/O-type		Parameter-IDs	
I/O device No.	Name	I/O device-ID	Main zone	Secondary zone
n	BUS-2 string y user x input 1 MB100.10		-----	-----
n+1	BUS-2 string y user x input 2 MB100.10		hh ***2)** (zone of detector group (IS 0,1)	uu ***2)** (zone of detector group (IS 0,1)
n+2	BUS-2 string y user x input 3 MB100.10		hh ***2)** (zone of detector group (IS 0,1)	uu ***2)** (zone of detector group (IS 0,1)
n+3	BUS-2 string y user x input 4 MB100.10		hh ***2)** (zone of detector group (IS 0,1)	uu ***2)** (zone of detector group (IS 0,1)
n+4	BUS-2 string y user x input 5 MB100.10		-----	-----

***2)** hh Main zone1-16
uu Secondary zone 0-63

BUS-2 user Identkey 3

I/O device-		Input states	Function value-	
No.	Name		No.	Name
n	BUS-2 string y user x input 1	IS 0 release glass breakage sensor	0 1	off on
n+1	BUS-2 string y user x input 2	IS 0 release bolt switching contact	0 1	off on
		IS 1 alarm bolt switching contact	0 1	off on
n+2	BUS-2 string y user x input 3	IS 0 release hold-up code	0 1	off on
		release IS 1 alarm hold-up code	0 1	off on
n+3	BUS-2 string y user x input 4	IS 0 ***5)** release opening contact	0 1	off on
		IS 1 ***5)** alarm opening contact	0 1	off on
n+4	BUS-2 string y user x input 5	IS 0 ***5)** release door break-in recognition executed by opening contact	0 1	off on
		IS 1 ***5)** alarm door break-in recognition executed by opening contact	0 1	off on

***5)** only available for IK-3 operating unit with keypad

Available for MB100.10, MB48, HB48.10, MB24, HB24 ab Version:

EM100.00.0V04.nn

EM100.01.0V05.nn

BUS-2 User ViewGuard

I/O device-		Input states	Function value-	
No.	Name		No.	Name
n	BUS-2 String y user x input 1	IS 0,1 release	1	off on
	Viewguard detector group input (VGMG)	IS 1 alarm.	1	off on
n+1	BUS-2 String y user x input 2	IS 0,1 release	1	off on
	External detector group input (EXMG)	IS 1 alarm.	1	off on
n+2	BUS-2 String y user x input 3	IS 0,1 release	1	off on
	Temperature detector group input (TEMG)	IS 1 alarm.	1	off on
n+3	BUS-2 String y user x input 4	IS 0,1 release	1	off on
	Anti-mask detector group input (AMMG)	IS 1 alarm.	1	off on
n+4	BUS-2 String y user x input 5	IS 0,1 release	1	off on
	System failure (power , monitoring, PIR self test)	IS 1 alarm.	1	off on

	I/O-Type	Parameter-IDs		
I/O-No.	**Name**	**I/O-device ID**	**Main zone**	**Secondary zone**
n	BUS-2 String y user x input 1 MB100.10	300011260	hh ***2)** (zone of detector group VGMG IS 0, 1)	uu ***2)** (zone of detector group VGMG IS 0, 1)
n+1	BUS-2 Viewguard external detector group MB100.10	300011290	hh ***2)** (zone of detector group EXMG IS 0,1)	uu ***2)** (zone of detector group EXMG (IS 0,1)
n+2	BUS-2 Viewguard temperature detector group MB100.10	300011291	hh ***2)** (zone of detector group TEMG IS 0,1)	uu ***2)** (zone of detector group TEMG (IS 0,1)
n+3	Viewguard anti-mask detector group MB100.10	300011292	hh ***2)** (zone of detector group AMMG IS 0,1)	uu ***2)** (zone of detector group AMMG IS 0,1)
n+4	Viewguard self test detector group MB100.10	300011293	hh ***2)** (zone of detector group STMG IS 0,1)	uu ***2)** (zone of detector group STMG IS 0,1)

*2) hh Main zone 1-16
uu Secondary zone 0-63

Legend:

VGMG input ViewGuard detector group
EXMG input for external detector group
TEMG input for temperature - detector group
STMG self test detector group

Available for MB100.10, MB48, HB48.10, MB24, HB24 ab Version:

EM100.00.0V07.nn
EM100.01.0V07.nn

BUS 2-User mini module

I/O device-		Input states	Function value-	
No.	Name		No.	Name
n	BUS-2 String y User x input 1	IS 0,1 release	1	off on
	mini module detector group input (MMMG)	IS 1 fault input alarm	1	off on
n+1	BUS-2 String y User x input 2	S 0 release	1	off on
	mini module fault input (MMST)	IS 1 fault input alarm	1	off on

	I/O-Type	Parameter-IDs		
I/O-No.	Name	I/O-device ID	Main zone	Secondary zone
n	BUS-2 String y user x input 1 MB100.10	300011295	hh ***2)** (zone of detector group MMMG (IS 0, 1)	uu ***2)** (zone of detector group MMMG (IS 0, 1)
n+1	BUS-2 String y user x input 2 MB100.10	300011295	hh ***2)** (zone of detector group MMMG (IS 0,1)	uu ***2)** zone of detector group MMMG (IS 0,1)

*2) hh Main zone1-16
uu Secondary zone 0-63

Legend:

MMMG Mini module Detector group input
MMST Mini module fault input

Available for MB100.10, MB48, HB48.10, MB24, HB24 ab Version:

EM100.00.0V05.nn
EM100.01.0V05.nn

From WINFEM Version the parameter of the central unit are exported in this form: SWFAV.00.0.Vvv.uu

I/O-No.	**I/O-types** **ID -Name**	**I/O - ID**	**I/O – Name** **(Parameter)**	**ID 1** **(Parameter)**	**ID 2** **(Parameter)**	**additional text** **(Parameter)**
n	BUS-2 mini module fault input MB100.10 without zone	300011295	*input text* ***3)** from MMMG	hh ***2)** zone of detector group (IS 0, 1) from MMMG	uu ***2)** zone of detector group (IS 0, 1) from MMMG	*detector group text* ***4)** from MMMG
n+1	BUS-2 mini module fault input MB100.10 without zone	300011295	*input text* ***3)** from MMST	hh ***2)** zone of detector group (IS 0, 1) from MMST	uu ***2)** zone of detector group (IS 0, 1) from MMST	*detector group text* ***4)** from MMST
n+2	not relevant					
n+3	not relevant					
n+4	not relevant					

***2)** hh Main zone 1-16
uu Secondary zone 0-63

***3)** *input text* is a parameter of the central unit

***4)** *detector group text* is a parameter of the central unit

3.10 User-Stati BUS-2 String 1-9

I/O device-		Input states	Function value-	
No.	Name		No.	Name
I/O- start =4801	BUS-2 string 1 user 0	IS 0 tamper	0 1	off cover tear-off
		IS 1 addressing	0 1	ok on trouble
		IS 2 ***1)** mains fault	0 1	off on
		IS 3 ***1)** fault	0 1	off on
		IS 4 ***1)** fault	0 1	off on
I/O- start +1	BUS-2 string 1user 1	IS 0 tamper	0 1 2	off cover tear-off
		...	...	...
		O O O O		
I/O- start +63	BUS-2 string 1user 63	IS 0 tamper	0 1 2	off cover tear-off
		IS 1 addressing	0 1	ok on trouble
		IS 2 ***1)** mains fault	0 1	off on
		IS 3 ***1)** fault	0 1	off on
		IS 4 ***1)** fault	0 1	off on

***1)** Only available for BUS-2 user wih own energy supply
(e.g.: BUS-2 64 MG - operating terminal)

User BUS-2 string	**2:**	I/O- start + 64 to I/O- start + 127	***3)**
" " "	**3:**	I/O- start + 128 to I/O- start + 191	***3)**
" " "	**4:**	I/O- start + 192 to I/O- start + 255	***3)**
" " "	**5:**	I/O- start + 256 to I/O- start + 319	***3)**
" " "	**6:**	I/O- start + 320 to I/O- start + 383	***3)**
" " "	**7:**	I/O- start + 384 to I/O- start + 447	***3)**
" " "	**8:**	I/O- start + 448 to I/O- start + 511	***3)**

***3)** Not available for central control unit types without IBUS and/or possible connection of the BUS-2 Interface

Formula for calculating the appropriate I/O device:
I/O(STR,user,EING) = |I/O- start| + (STR-1)*64*(User)

Legend:
I/O =I/O device number, I/O- start = I/O device start value, STR = String,User = user -number,
EING = input number

I/O number:
I/O- start: 4801
I/O- end: 5312

	I/O-type		**Parameter-IDs**	
I/O device No.	**Name**	**I/O device-ID**	**Main zone**	**Secondary zone**
I/O- start = 4801	BUS-2 user -state databus	300010070	hh ***2)** (zone of BUS-2 user (IS 0,1)	uu ***2)** (zone of BUS-2 user (IS 0,1)
...	...	...	...	...
I/O- start +511	BUS-2 user -state databus	300010070	hh ***2)** (zone of BUS-2 user (IS 0,1)	uu ***2)** (zone of BUS-2 user (IS 0,1)

***2)** hh Main zone1-16
uu Secondary zone 0-63

3.11 User-Stati Subscriber IBUS

I/O device-		Input states	Function value-	
No.	**Name**		**No.**	**Name**
I/O- start =5313	user 1 I-Bus ***1)**	IS 0 type of user	0 1 2 3 4 5 6 7 8	not present group module (01) detector / Bus1-module (0D) data / Bus2-module (08) ---- ---- IBUS-IGIS-Interface (05) ---- reserved
		IS 1 addressing	0 1	ok error
		IS 2 trouble Eprom, RAM	0 1	off on
		IS 3 trouble 1	0 1	off on
		IS 4 trouble 2	0 1	off on
		IS 5 trouble 3	0 1	off on
		IS 6 trouble 4	0 1	off on
		IS 7 trouble 5	0 1	off on
I/O- start + 1	user 2 I-Bus ***1)**	IS 0 type of user	0	not present ...
		O O O O		
I/O- start + 7	user 8 I-Bus ***1)**	IS 5 trouble 3	0 1	off on
		IS 6 trouble 4	0 1	off on
		IS 7 trouble 5	0 1	off on

***1)** not available for central control unit types without IBUS

Central control unit types with less possible connecting capability of IBUS interfaces have correspondingly less I/O devices.

I/O number:
I/O- start: 5313
I/O- end: 5320

	I/O-type		**Parameter-IDs**	
I/O device No.	**Name**	**I/O device-ID**	**Main zone**	**Secondary zone**
I/O- start =5313	IBUS user 1 user IBUS MB100.10	300010089	hh ***2)** (zone of central control unit)	uu ***2)** (zone of central control unit)
...	...	...	...	...
I/O- start +7	IBUS user 1 user IBUS MB100.10	300010089	hh ***2)** (zone of central control unit)	uu ***2)** (zone of central control unit)

***2)** hh Main zone1-16
uu Secondary zone 0-63

3.12 Controllable outputs

I/O device-		Input states	Function value-	
No.	Name		No.	Name
I/O- start = 964	IGIS output 1	OS 0 switching state	0 1	off on
		IS 0 switch	0 1	off on
I/O- start +1	IGIS output 2	OS 0 switching state	0 1	off on
		IS 0 switch	0 1	off on
		O O O O		
I/O- start +79	IGIS output 80	OS 0 switching state	0 1	off on
		IS 0 switch	0 1	off on

Configurations-Text:

IGIS_Steuer_Ausgxx : IG_Ausg();

I/O number:
I/O- start: 5321
I/O- end: 5400

	I/O-type		Parameter-IDs	
I/O device No.	Name	I/O device-ID	Main zone	Secondary zone
I/O- start	Controllable output IGIS MB100.10	300010090	-----	-----
...	...	...	...	...
I/O- start+79	Controllable output IGIS MB100.10	300010090	-----	-----

3.13 Remote inputs

Remote inputs can influence groups via IGIS. Allocation to the groups is fixed. The function of remote inputs corresponds to that of the input detector bus (BUS-1) and databus (BUS-2) users.

I/O device-		Input states	Function value-	
No.	Name		No.	Name
I/O- start =1044	IGIS remote input 1	OS 0 switching state	0 1	off on
		IS 1 alarm	0 1	off on
		OS 0 switch	0 1	off on
I/O- start + 1	IGIS remote input 2	IS 0 switching state	0 1	off on
		o o o o		
I/O- start +12	IGIS remote input 104	OS 0 switch	0 1	off on

Group allocation:

Via the menue "Detector group offset for the remote inputs" in the programming function 517 you can define to which zone of detector groups the remote inputs may be allocated. Always 8 remote inputs are allocated to a detector group. The following table shows the allocation:

remote input	->	allocated to detector group	- default setting
1 - 8	->	detector group-Offset+0	- 80
9 - 16	->	detector group-Offset+1	- 81
17 - 24	->	detector group-Offset+2	- 82
25 - 32	->	detector group-Offset+3	- 83
33 - 40	->	detector group-Offset+4	- 84
41 - 48	->	detector group-Offset+5	- 85
49 - 56	->	detector group-Offset+6	- 86
57 - 64	->	detector group-Offset+7	- 87
65 - 72	->	detector group-Offset+8	- 88
73 - 80	->	detector group-Offset+9	- 89
81 - 88	->	detector group-Offset+10	- 90
89 - 96	->	detector group-Offset+11	- 91
97 - 104	->	detector group-Offset+12	- 92

type of central unit	**detector group offset**
MB16	4
HB24 / MB24	12
HB48 / HB48.10 / MB48	36
MB100 / MB100.10	80

I/O number:
I/O- start: 5401
I/O- end: 5504

	I/O-type		Parameter-IDs	
I/O device No.	**Name**	**I/O device-ID**	**Main zone**	**Secondary zone**
I/O- start	remote input IGIS MB100	300010091	-----	-----
...	...	...	...	...
I/O- start+103	remote input IGIS MB100	300010091	-----	-----

3.14 Identkey last received

I/O device-		Input states	Function value-	
No.	**Name**		**No.**	**Name**
I/O- start =5505	last key of switching device 1	IS 0, 1,2,3 not applicable		
		IS 4 last action with this key	0	not applicable
			1	activated (*)
			2	deactivated (*)
			3	deactivated & door free (*)
			4	door free only (*)
			5	locked (*)
			6	unlocked (*)
			7	unknown key
			8	zone armed internal
			*2)	switching device locked
		O O O O		
I/O- start +63	64	IS 1,2,3 not applicable		
		IS 4 last action with this key	0	not applicable
			1	activated (*)
			2	deactivated (*)
			3	deactivated & door free (*)
			4	door free only (*)
			5	locked (*)
			6	unlocked (*)
			7	unknown key
			8	zone armed internal
			*2)	

***1)** For central control units with less possible switching devices the number of I/O devices is correspondingly reduced.

***2)** The function values 9 and 10 (toggle) are sent with a key action, which is not assignable to the function values 1 to 8. Example: Reading an Identkey in armed state - watchdog check.

(*) A string with key-name and key-index is attached to the marked values of IS 4.

I/O number:
I/O- start: 5505
I/O- end: 5568

	I/O-type		Parameter-IDs	
I/O device No.	**Name**	**I/O device-ID**	**Main zone**	**Secondary zone**
I/O- start =5505	Identkey (last received) MB100.10	300010094	-----	-----
...	...	...	...	...
I/O- start +63	Identkey (last received) MB100.10	300010094	**-----**	**-----**

(*) with attached string

Byte designation	**Byte- sequence**	**value-zone**
number of strings	1	Fix 2
length of name	2	0-40
names	3. + length of name	all printable ASCII symbols
length of key index	2. + (length of name +1)	Fix 3
key index 10^2	4. + (length of name +1)	item as ASCII symbol
key index 10^1	5. + (length of name +1)	item as ASCII symbol
key index 10^0	6. + (length of name +1)	item as ASCII symbol

If the key is invalid the identkey code is transmitted as key name.

3.15 Switching devices additional information

I/O device-		Input states	Function value-	
No.	Name		No.	Name
I/O- start =5569	switching device 1	IS 0 presence contact state	1	OK released
		IS 1 presence contact alarm	0 1	off on
		IS 2 armature contact state	0 1	OK released
		IS 3 armature contact alarm	0 1	off on
		IS 4 buzzer door too long open	0 1	off on
		IS 5 alarm door too long open	0 1	off on
		IS 6, 7 free		
I/O- start	switching device 2			...
1			...	...
		O O O O		
I/O- start +63	64	...	...	....
		IS 7 free		

3.16 GPS-position of central unit

only valid with connected GPS-receiver

I/O device-		Input states	Function value-	
No.	Name		No.	Name
1100	GPS-position in GPGGA-string format	IS 1 - 7 not applicable		

I/O number:
I/O-Start: 1100
I/O- End: 1100

3.17 RF transceiver BUS-2 inputs of the radio communication devices

I/O device-		Input states	Function value-	
No.	Name		No.	Name
I/O- start =5700	RF transceiver BUS-2 radio communication device 1	IS 0 release	0 1	off on
	detector device 1 input 1	IS 1 alarm	0 1	off on
I/O- start +1	RF transceiver BUS-2 radio communication device 1	IS 0 release	0 1	off on
	detector device input 2	IS 1 alarm	1	off on
I/O- start +2	RF transceiver BUS-2 radio communication device 1	IS 0 release	0 1	off on
	detector device input 3	IS 1 alarm	1	off on
I/O- start +3	RF transceiver BUS-2 radio communication device 1	IS 0 release	0 1	off on
	detector device input 4	IS 1 alarm	1	off on
		O O O O		
...	...	...	1	off on
I/O- start +399	RF transceiver BUS-2 radio communication device 1	IS 0 release	0 1	off on
	detector device input 4	IS 1 alarm	1	off on

General:

Each RF radio communication device reserves 4 I/O devices in ascending order. Conditional on the radio communication devices WINFEM only exports physical present I/O devices .

From one communication device (input 1) to the next always results a I/O device -offset of +4.

Expected to be applicable for MB100.10, MB48, HB48.10, MB24, HB24 from Version:

EM100.01.0V09.nn

I/O number:

I/O-Start: 5700

I/O- End: 7619

3.18 RF transceiver BUS-2 user stati of the radio communication devices

I/O device-		Input states	Function value-	
No.	Name		No.	Name
I/O- start =7620	radio communication device 1	IS 0 tamper	0 1	off on
		IS 1 tamper power supply	0 1	off cover open
		IS 2 ***1)** power failure	0 1	off on
		IS 3 ***1)** battery failure	12	ok warning fault
		...	..	...
O O O O				
I/O- start +479	radio communication device 100	IS 0 tamper	0 1	off on
		IS 1 tamper power supply	0 1	off cover open
		IS 2 ***1)** power failure	0 1	off on
		IS 3 ***1)** battery failure	12	ok warning fault

*1) Power failure and battery failure only are possible if the corresponding radio communication device is operated with a power supply unit. Only provided for the radio-4 I/O module.

Expected to be applicable for MB100.10, MB48, HB48.10, MB24, HB24 from Version:
EM100.01.0V09.nn

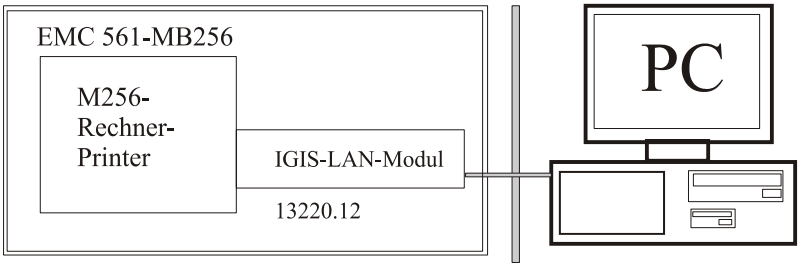
I/O number:
I/O-Start: 7620
I/O- End: 8099

4 Performance features of the new central units 561-HB/MB

Performance features	reference to I/O devices	561-HB24 New	561-HB48 New	561-MB100 New
printer parallel	6	**----**	**possible**	**possible**
printer serial	7	**----**	**----**	**----**
main zones	72 - 87	**2**	**4**	**16**
secondary zones	88 - 1095	**7**	**15**	**63**
switching device	8 - 71 5505 - 5568	**8**	**16**	**64**
detector groups	1101 - 1612	**24**	**48**	**512**
conv. detector groups inputs	1618 - 1673	**8**	**8+1 extension=24**	**8+3 extension=56**
BUS-1 user	1674 - 2240	**63 (String 1)**	**63+1 module=315 (Strang 1-5)**	**63+2 module=567 (Strang 1-9)**
BUS-2 user	2241 - 4800 4801 - 5312	**64 (String 1)**	**64+1 module=128 (Strang 1-2)**	**64+7 module=512 (Strang 1-8)**
IBUS user	5313 - 5320	**----**	**3**	**8**
IGIS-LAN user	5321 - 5329	**----**	**32**	**32**
operating units		**10**	**24**	**64**
5-output module		**10**	**64**	**64x8**
operating codes		**16**	**32**	**128**
identkey key		**32**	**128**	**512**
event memory		**1000**	**1000**	**1000**
text for det. groups		**24 x 40**	**48 x 40**	**512 x 40**
text for inputs		**255 x 40**	**255 x 40**	**100 x 40**
text for IK-keys		**32 x 40**	**128 x 40**	**512 x 40**
text for zones		**8 x 40**	**16 x 40**	**64 x 40**
text for macros		**20 x 20**	**20 x 20**	**100 x 20**
time zones		**32**	**32**	**32**
week schedule		**20**	**20**	**20**
special schedules		**50**	**50**	**50**
connections		**10**	**10**	**50**
conn. components		**99**	**99**	**500**
special schedules		**50**	**50**	**50**
macros		**20**	**20**	**100**
macro elements		**70**	**70**	**500**
radio comm. dev.		**60**	**120**	**480**

2.6 Connection of the control unit EMC 561-MB256 to the IGIS network

1. Basic configurations of the system



2.1 Access code

The IGIS access codes that are programmed in the central unit under function 513 serve as access codes.

2.2 External access main zones

In function: 513 “Configure IGIS”, submenu “External access main zones” you can enable/disable (via the IGIS network) external access for every main zone and the pertaining sub-zones. Execution of the following control functions is not possible if the main zone is disabled:

- External arming of the main zone
- External/internal arming of the pertaining sub-zones
- Disarm the externally armed main zone
- Disarm externally armed secondary zone or internally armed secondary zone
- External disabling/enabling of detector groups of main zone and the pertaining sub-zones
- Clear tamper
- Reset
- Clear detector groups
- Clear detector group users
- Triggering of macro

  (Here the enabled zone is the “secured zone”. If no“secured zone” is available, the “central unit door zone” is used. If no “central unit door zone” is available, “zone 1" is used as “external access main zone”).

All other control functions such as:

- Define/clear control outputs
- Disable/enable intrusion detection groups
- main zone delayed internal arming
- main zone not delayed internal arming
- Switch main zone from internal arming to unarmed
- Clear technical alarm
- Clear fire alarm
- Clear messages

are always enabled irrelevant of the programming of “External access main zone”.

1. Tamper loudspeaker

I/O device-		Input states	Function value-	
No.	Name		No.	Name
1	loudspeaker module 1	IS 0 tamper	0 1 2	no released not present
2	loudspeaker module 2	IS 0 tamper	0 1 2	no released not present
		o o o o		
32	loudspeaker module 32	IS 0 tamper	0 1 2	no released not present

The loudspeaker only is present (ok), if module x (1-32) is a connection module and the feature is programmed.

Configurations-Text:
loudspeaker_xx : SY_sabo(xxxxx);

I/O type: 1-32 System sabotage MB100/16/8

2. Tamper flash flashing lamp

I/O device-		Input states	Function value-	
No.	Name		No.	Name
65	flashing lamp module 1	IS 0 tamper	0 1 2	no released not present
66	flashing lamp module 2	IS 0 tamper	0 1 2	no released not present
		o o o o		
96	flashing lamp module 32	IS 0 tamper	0 1 2	no released not present

The flashing lamp only is present (ok), if module x (1-32) is a connection module and the feature is programmed.

Configurations-Text:
flashing lamp xx : SY_sabo(xxxxx);
I/O type: 65-96 System sabotage MB100/16/8

3. Energy trouble

I/O device-		Input states	Function value-	
No.	Name		No.	Name
129	energy trouble module 1	IS 0 programming	0 1	not present present
		IS 1 battery	0 1	ok error
		IS 2 battery storage	0 1	off on
		IS 3 ***)** AC	0 1	ok on trouble
		O O O O		
160	energy trouble module 32	IS 0 programming	0 1	not present present
		IS 1 battery	0 1	ok error
		IS 2 battery storage	0 1	off on
		IS 3 ***)** AC	0 1	ok on trouble

The energy trouble only is present (ok), if module x (1-32) is a connection module and the feature has been programmed.

*) The output "AC on trouble" appears with a delay of 20 seconds.

Configurations-Text:

Energy_trouble_xx : ENS_256(xxxxx);

I/O type: 129-160 Energy trouble M256

4. Processor error

I/O device-		Input states	Function value-	
No.	Name		No.	Name
193	processor	IS 0 trouble Eprom/ RAM	0 1	off on

Configurations-Text:
Rechner_Stoerung : SY_mc(00193);

I/O type: 193 processor trouble M256/100/16/8 M299/20

5. Printer error

I/O device-		Input states	Function value-	
No.	Name		No.	Name
194	printer 1	IS 0 programming	0 1	not present present
		IS 1 general trouble	0 1	ok on trouble
		IS 2 paper	0 1	ok empty
195	printer 2	IS 0 programming	0 1	not present present
		IS 1 general trouble	0 1	ok on trouble
		IS 2 Papier	0 1	ok empty
		o o o o		
213	printer 20	IS 0 programming	0 1	not present present
		IS 1 general trouble	0 1	ok on trouble
		IS 2 paper	0 1	ok empty

Currently only printer 1 and printer 2 available.

Configurations-Text:
Printer error_xx : SY_Druck(00xxx);
I/O type: 194-213 Printer state MB256/100/16/8

6. User-Stati IBUS-user

I/O device- No.	I/O device- Name	Input states	Function value- No.	Function value- Name
214	user 1 I-BUS	IS 0 type of user	0 1 2 3 4 5 6 7 8 9 10 11	not present group detector bus I/O keyboard not in use AWUG DS7500 ISDN DGA2400 DS 8500 IGIS LOOP- module
		IS 1 IBUS-addressing	0 1	ok error
		IS 2 trouble Eprom/RAM	0 1	off on
		IS 3 ***2)** trouble 1	0 1	off on
		IS 4 tamper	0 1	off on
		IS 5 trouble 3	0 1	off on
		IS 6 trouble 4	0 1	off on
		IS 7 trouble 5	0 1	off on
215	user 2 I-BUS	IS 0 type of user	0 1 ...	not present group ...
		...	...	...
		O O O O		
245	user 32 I-BUS	...	...	...
		IS 6 trouble 4	0 1	off on
		IS 7 trouble 5	0 1	off on

*2) At detector bus and data bus modules : trouble BUS

Configurations-Text:

user : SY_IBUS(002xx);

I/O type: 214-245 user IBUS MB256

7. Switching devices 1-250

I/O device-		Input states	Function value-	
No.	Name		No.	Name
281	switching device 1 ***1)**	IS 0 switching position	0 1 2	open closed not present
		IS 1 operation possible	0 1	yes no
		IS 2 tamper housing	0 1	off on
		IS 3 tamper line	0 1	off on
		IS 4 ***2)** addressing	0 1	ok on trouble
		IS 5 zone digit 3	0 . . 9	zero . . nine
		IS 6 zone digit 2	0 . . 9	zero . . nine
		IS 7 zone digit 1	0 . . 9	zero . . nine
		o o o o		
530	switching device 250	...		...

*1) The numbering of the switching devices corresponds to the internal numbering in the central unit MB256 and not to the numbering referring to the display/output.

*2) only if the switching device is connected to a bus.

Configurations-Text:

HBxxx_UBxxx_SExxx : Sch_256(00xxx);
HBxxx_UBxxx_SExxx : SchB_256(00xxx); {switching device Bus}

I/O type: 281-530 Switchingdevicenit MB256

8. Zones 1...250

I/O device- No.	I/O device- Name	Input states / Output states	Function value- No.	Function value- Name
531	Zone 1 ***1)**	IS 0 activation status	0 1 2 3	disarmed internally armed externally armed not present
		IS 1 intruder alarm	0 1	off on
		IS 2 hold-up alarm	0 1	off on
		IS 3 tamper alarm	0 1	off on
		IS 4 receipt alarm	0 1	off on
		IS 5 trouble 2 ext. blocked	0 1	off on
		IS 6 ext. positive drive	0 1	no yes
		IS 7 audit	0 1	off on
		OS 0 ***2)** switch	0 1 2 3 4 5 6 7 8	disarm internally armed delayed armed delete delete tamper delete general delete technic external armed delete fire alarm
		OS 0 ***3)** switch	0 1	disarm armed
532	zone 2	IS 0 activation status	0 1 2 3	disarmed internally armed externally armed not present
		o o o o		
780	zone250	IS 0 activation status	0 1 2 3	disarmed internally armed externally armed not present

1) Numbering of the zones corresponds to the MB256 internal numbering and not the numbering in the form of main and sub-zones as displayed/printout at the central unit.

*2) Switching functions if zone is programmed as main zone in the MB256.

*3) Switching functions if zone is programmed as sub-zone in the MB256.

Configurations-Text:

Hbxxx	: HB_256(00xxx);	{for main zones}
HBxxxUBxxx	: HBUB_256(00xxx);	{for secondary zones}

I/O type:	531-780	Main zone MB256
I/O type:	531-780	Main zone MB256 (filtered, without positive drive)
I/O type:	531-780	Subn zone MB256

I/O devices 781 to 800 are reserved for enlargement

9. Controllable outputs

I/O device-		Input states / Output states	Function value-	
No.	Name		No.	Name
801	IGIS control output 1	OS 0 switching	0 1	off on
		IS 0 switch (acknowledgement)	0 1	off on
802	IGIS control output 2	OS 0 switching	0 1	off on
		IS 0 switch (acknowledgement)	0 1	off on
O O O O				
900	IGIS control output 100	OS 0 switching	0 1	off on
		IS 0 switch (acknowledgement)	0 1	off on

Configurations-Text:

IGIS_Control output xxx : IG_output(001xx);

I/O type: 801-900 IGIS output MB256/100/16/8

10. Groups 1 - 2048

I/O device- No.	I/O device- Name	Input states / Output states	Function value- No.	Function value- Name
1001 Group 01	monitoring states	IS 0 condition	0 1 2	ok released not present
		IS 1 attack alarm	0 1	off on
		IS 2 internal blocking	0 1	off on
		IS 3 external blocking	0 1	off on
		IS 4 tamper	0 1	off on
		IS 5 zone digit 3	0 1 2	12
		IS 6 zone digit 2	0 . 9	9
		IS 7 zone digit 1	9	9
	control	OS 0 internal blocking	0 1	off on
		OS 1 external blocking	0 1	off on
		OS 2 erase	0	erase
		O O O O		
3048 Group 2048	control function	OS 1 external blocking	0 1	off on
		OS 2 erase	0	erase

Konfigurations-Text:
Group_xxxx : Grp_256(0xxxx);

I/O type: 1001-3048 Group intrusion
Group intrusion filetred MB256

11. Macro-releasing

I/O device-		Input states / Output states	Function value-	
No.	Name		No.	Name
6001	IGIS start 1	OS 0 switch	1	start
6002	IGIS start 2	OS 0 switch	1	start
		O O O O		
6250	IGIS start 250	OS 0 switch	1	start

Configurations-Text:

IGIS_Makro_Offlxxx : MK_Offl(001xx);

I/O type: 6001-6250 Start macro MB256

12. Inputs 1 - 15000

I/O device- No.	I/O device- Name	Input states / Output states	Function value- No.	Function value- Name
7001	Input 1	IS 0 release	0 1 2	ok released not present
		IS 1 alarm released	0 1	off on
		IS 2 internal blocking	0 1	off on
		IS 3 external blocking	0 1	off on
		IS 4 message	0 1	no first message first message
	control function	OS 0 internal blocking	0 1	off on
		OS 1 external blocking	0 1	off on
		OS 2 erase	0	erase
7002	input 2	IS 0 release	0 1 2	ok released not present
		IS 1 alarm	0 1	off on
		IS 2 internal blocking	0 1	off on
		IS 3 external blocking	0 1	off on
		IS 4 message	0 1	no first message first message
	control function	OS 0 internal blocking	0 1	off on
		OS 1 external blocking	0 1	off on
		OS 2 erase	0	erase

O O O O

22000	input 15000	IS 0 release	0 1 2	ok released not present
		IS 1 alarm	0 1	off on
		IS 2 internal blocking	0 1	off on
		IS 3 external blocking	0 1	off on
		IS 4 tamper	0 1	off on
	control function	OS 0 internal blocking	0 1	off on
		OS 1 external blocking	0 1	off on
		OS 2 erase	0	erase

Configurations-Text - Inputs:

Grp_Modxx_Userxx	: input_256(xxxxx);	{Group module}
Ta_Modxx_Userx_Ue	: input_256(xxxxx);	{keyboard module}
Ta_Modxx_Userx_UeS	: input_256(xxxxx);	{hold-up}
MB_Modxx_Userxxx_Eing	: input_256(xxxxx);	{hold-up silent}
MB_Modxx_Userxxx_nadr	: input_256(xxxxx);	{detector/Bus1-module}
MB_Modxx_Userxxx_DK	: input_256(xxxxx);	{data/Bus2-module}
DB_Modxx_Userxx_Eingx	: input_256(xxxxx);	{input}
DB_Modxx_Userxx_nadr	: input_256(xxxxx);	{not addressable}
DB_Modxx_Userxx_DK	: input_256(xxxxx);	{cover contact}

I/O type: 7001-22000 Group intrusion MB256

Bus user inputs

The inputs are numbered (internally) consecutively. Counted in the sequence of the existing modules.

The input number of the 1. input of every user is specified in the print out of programming .(Documentation of WINFEM)

You get the I/O device number by adding the I/O device No. offset (for inputs 7000) to the input number.

Every module occupies the following number of inputs:

Module	Input/modules	Inputs/Partcpnt.		1. user addr.
internal reserved		250		
Bus2/databus	512	8		user0=Adr0
Bus1/detector bus	756	3		user1=Adr1
E/A Basic module	32	1		
Keyboardmodule	8	1		
Connection-basic module	5	1		
DS6500 AWUG	1	1		
DS7500 ISDN	1	1		
DGA2400	1	1		
DS8500		1	1	
IGIS LOOP Module	1	1		

Examples:

Example configuration of a central unit:

1. Module	Bus2module	01
2. Module	connection module	01
3. Module	Bus1module	01
4. Module	E/A basic module	01
5. Module	E/A basic module	02

1. Input of user 11 from Bus2 -> I/O No. ?
Input 250 + 11*8 + 1 = **339 -> is printed in FKT 404**
I/O No. 7000 + 339 = 7339

1. Input of user 11 from Bus1 -> I/O No. ?
Input 250 + 512 + 5 + 10*3 + 1 = **798 -> is printed in FKT 404**
I/O No. + 798 = 7798

1. Input of E/A basic module 01 -> I/O No.?
Input 250 + 512 + 5 + 756 + 1 = **1524 -> is printed in FKT 404**
I/O No. 7000 + 1524 = 8524

12.1 Bus1-users-inputs

Every address/user on the bus occupies 3 inputs. Every one of these inputs is displayed by way of own I/O device. A bus1 module occupies a total of 756 inputs = 252 users = 63 users/line.

Bus1 users: group modules, standard detectors, window sensors, universal detectors, logic detectors

The various types of standard bus1 users occupy one address = one user on bus1. Every user occupies 3 inputs resp., 3 I/O devices. The inputs have the following affiliation:

1. Input = addressing
2. Input = release
3. Input = tamper

I/O device- No.	I/O device- Name	Input states	Function value- No.	Function value- Name
n	input 1	IS 0 addressing	0 1 2	ok error not present
		IS 1 alarm adress	0 1	off on
n+1	input 2	IS 0 release	0 1 2	ok error not present
		IS 1 alarm	0 1	off on
		IS 2 internal blocking	0 1	off on
		IS 3 external blocking	0 1	off on
		IS 4 message	0 1	- first message
n+2	input 3	IS 0 tamper	0 1 2	off on not present
		IS 1 tamper alarm	0 1	off on

Configurations-Text - inputs:

n: see inputs : B_256ADR(xxxxx);
n+1: " : Eing_256(xxxxx);
n+2: " : B_256SAB(xxxxx);

I/O type:

n: Addressing BUS 1 MB256
n+1: Input BUS MB256
n+2: Tamper BUS 1 MB256

Bus1-user: Lock release module

The lock release module occupies one address = a user on bus1. Every user occupies 3 inputs resp., 3 I/O devices. The inputs have the following affiliation:

1. Input = addressing
2. Input = lock release
3. Input = tamper

I/O device-		Input states	Function value-	
No.	Name		No.	Name
n	input 1	IS 0 addressing	0 1 2	ok error not present
		IS 1 alarm address	0 1	off on
n+1	input 2	IS 0 lock release	0 1 2	missing present not present
n+2	input 3	IS 0 tamper	0 1 2	off on not present
		IS 1 tamper alarm	0 1	off on

Configurations-Text - inputs:

n: see inputs : B_256ADR(xxxxx);
n+1: " : B_256SFG(xxxxx);
n+2: " : B_256SAB(xxxxx);

I/O type:
n: Addressing BUS 1 MB256
n+1: Lock release BUS MB256
n+2: Tamper BUS 1 MB256

Bus1-users: Interfacing module, remote display, indoor siren

The users occupy an address = a user of BUS-1. Every user occupies 3 inputs and/or 3 I/O devices. The inputs have the following affiliation:

1. Input = addressing
3. Input = tamper

I/O device-		Input states	Function value-	
No.	Name		No.	Name
n	input 1	IS 0 addressing	0 1 2	ok error not present
		IS 1 alarm address	0 1	off on
n+1	input 2	not used		
n+2	input 3	IS 0 tamper	0 1 2	off on not present
		IS 1 alarm tamper	0 1	off on

Configurations-Text - inputs:

n: see inputs : B_256ADR(xxxxx);
n+2: see inputs : B_256SAB(xxxxx);

I/O type:

n: Addressing BUS 1 MB256
n+2: Tamper BUS 1 MB256

Bus1-user: Lock module

The lock module occupies an address = a user of BUS-1. Every user occupies 3 inputs and/or 3 I/O devices. The inputs have the following affiliation:

1. Input = addressing
2. Input = activation state
3. Input = tamper

I/O device-		Input states	Function value-	
No.	Name		No.	Name
n	input 1	IS 0 addressing	0 1 2	ok error not present
		IS 1 alarm address	0 1	off on
n+1	input 2	IS 0 activation state	0 1 2	armed disarmed not present
n+2	input 3	IS 0 tamper	0 1 2	off on not present
		IS 1 tamper alarm	0 1	off on

Configurations-Text - inputs:

n: see inputs : B_256ADR(xxxxx);
n+1: " : B_256SIS(xxxxx);
n+2: " : B_256SAB(xxxxx);

I/O type:

n: Addressing BUS 1 MB256
n+1: Activation state BUS MB256
n+2: Tamper BUS 1 MB256

Bus1- user: Operating unit-module

The operating unit module occupies two addresses = two users of BUS-1. Every user occupies 3 inputs and/or 3 I/O devices. The inputs have the following affiliation:

1. input user 1 = addressing
3. input user 1 = tamper

I/O device-		Input states	Function value-	
No.	Name		No.	Name
Partici-pant1 n	input 1	IS 0 addressing	0 1 2	ok error not present
		IS 1 alarm address	0 1	off on
n+1	input 2	not in use		
n+2	input 3	IS 0 tamper	0 1 2	off on not present
		IS 1 tamper alarm	0 1	off on

Configurations-Text - Inputs:

user1

n: see inputs : B_256ADR(xxxxx);

n+2: " : B_256SAB(xxxxx);

I/O type:

n: Addressing BUS 1 MB256

n+2: Tamper BUS 1 MB256

1. Input user 2 = addressing
2. Input user 2 = Off
3. Input user 2 = On

I/O device-		Input states	Function value-	
No.	Name		No.	Name
user 2 n	input 1	IS 0 addressing	0 1 2	ok error not present
		IS 1 alarm address	0 1	off on
n+1	input 2	IS 0 operating unit off	0 1 2	not activated activated not present
n+2	input 3	IS operating unit off	0 1 2	not activated activated not present

Configurations-Text - Inputs:

user2

n: see inputs : B_256ADR(xxxxx);
n+1: " : B_256Off(xxxxx);
n+2: " : B_256EIN(xxxxx);

I/O type:

n: Addressing BUS 1 MB256
n+1: Operating unit off BUS MB256
n+2: Operating unit on BUS MB256

Bus1-user: Door-/ door arming module

The door-/ door arming module occupies 3 addresses = 3 users of BUS-1. Every user occupies 3 inputs and/or 3 I/O devices. The inputs have the following affiliation:

1. Input user 1 = addressing
2. Input user 1 = release contact
   allocation to any detector group
3. Input user 1 = tamper

I/O device- No.	Name	Input states	Function value- No.	Name
user 1 n	input 1	IS 0 addressing	0 1 2	ok error not present
		IS 1 alarm address	0 1	off on
n+1	input 2	IS 0 release	0 1 2	off on not present
		IS 1 alarm released	0 1	off on
		IS 2 internal blocking	0 1	off on
		IS 3 external blocking	0 1	off on
		IS 4 message	0 1	no first message first message
n+2	input 3	IS 0 tamper	0 1 2	off on not present
		IS 1 tamper alarm	0 1	off on

Configurations-Text - inputs:

user1

n: see inputs : B_256ADR(xxxxx);
n+1: " : B_256OEK(xxxxx);
n+2: " : B_256SAB(xxxxx);

I/O type:

n: Addressing BUS 1 MB256
n+1: Input BUS MB256
n+2: Tamper BUS 1 MB256

1. Input user 2 = addressing
2. Input user 2 = disarmed input
3. Input user 2 = armed input

I/O device-		Input states	Function value-	
No.	Name		No.	Name
user 2 n	input 1	IS 0 addressing	0 1 2	ok error not present
		IS 1 Alarm_Adres.	0 1	off on
n+1	input 2	IS 0 disarmed input	0 1 2	off on not present
n+2	input 3	IS armed input	0 1 2	off on not presente

Configurations-Text - inputs:

user2

n:	see inputs	: B_256ADR(xxxxx);
n+1:	"	: B_256USE(xxxxx);
n+2:	"	: B_256SEI(xxxxx);

I/O type:

n:	Addressing BUS 1 MB256
n+1:	Disarmed input BUS MB256
n+2:	Armed input BUS MB256

1. Input user 3 = addressing
2. Input user 3 = lock release
allocation to any detector group
3. Input user 3 = bolt switching contact
allocation to any detector group

I/O device- No.	Name	Input states	Function value- No.	Name
User 3 n	input 1	IS 0 addressing	0 1 2	ok on trouble not present
		IS 1 alarm address	0 1	off on
n+1	input 2	IS 0 lock release	0 1 2	off on not present
		IS 1 Alarm_Offl.	0 1	off on
		IS 2 internal blocking	0 1	off on
		IS 3 external blocking	0 1	off on
		IS 4 message	0 1	no first message first message
n+2	input 3	IS 0 release	0 1 2	off on not present
		IS 1 Alarm_Offl.	0 1	off on
		IS 2 internal blocking	0 1	off on
		IS 3 external blocking	0 1	off on
		IS 4 message	0 1	no first message first message

Configurations-Text - inputs:

user3

n: see inputs : B_256ADR(xxxxx);
n+1: " : B_256SFG(xxxxx);
n+2: " : B_256RSK(xxxxx);

I/O type:

n: Addressing BUS 1 MB256
n+1: Lock release BUS MB256
n+2: Bolt switching contact BUS MB256

Bus1-user: Radio-module

The radio-module occupies 4 addresses = 4 users of BUS-1. Every user occupies 3 inputs and/or 3 I/O devices. The inputs have the following affiliation:

1. Input user 1 = addressing (tamper radio annunciator)
2. Input user 1 = radio annunciator 1 (utility input)
   allocation to any detector group
3. Input user 1 = tamper cover contact

I/O device- No.	Name	Input states	Function value- No.	Name
Partici-pant 1 n	Input 1	IS 0 adressing	0 1 2	ok in trouble not present
		IS 1 alarm adressing	0 1	off on
n+1	Input 2	IS 0 release	0 1 2	off on not present
		IS 1 alarm	0 1	off on
		IS 2 internal blocking	0 1	off on
		IS 3 external blocking	0 1	off on
		IS 4 message	0 1	no first message first message
n+2	Input 3	IS 0 tamper	0 1 2	off on not present
		IS 1 alarm cover contact	0 1	off on

Configurations-Text - Inputs:

User 1

n: see inputs : B_256ADR_FM1(xxxxx);
n+1: " : B_256FM1(xxxxx);
n+2: " : B_256SAB_DECKEL(xxxxx);

I/OType:

14. Addressing Bus 1 MB256
n+1: Input Bus MB256
n+2: Cover contact Bus MB256

1. input user 2 = Addressing (tamper radio annunciator 2)
2. input user 2 = battery trouble
3. input user 2 = radio annunciator 2 (utility input)
(allocation to any detector group)

I/O device-		Input states	Function value-	
No.	Name		No.	Name
Partici-pant 2 n	Input 1	IS 0 addressing	0 1 2	ok in trouble not present
		IS 1 alarm addressing	0 1	off on
n+1	Input 2	IS 0 release battery trouble	0 1 2	off on not present
n+1	Input 3	IS 0 release	0 1 2	off on not present
		IS 1 alarm	0 1	off on
		IS 2 internal blocking	0 1	off on
		IS 3 external blocking	0 1	off on
		IS 4 message	0 1	no first message first message

Configurations-Text - Inputs:
User 2
n: see inputs : B_256ADR_FM2(xxxxx);
n+1: " : B_256BATT(xxxxx);
n+2: " : B_256FM2(xxxxx);

I/O-Type:
Addressing Bus 1 MB256
n+1: Battery trouble Bus MB256
n+2: Input Bus MB256

1. input user 3 = addressing (tamper radio annunciator 3)
2. input user 3 = tamper cyclic acknowledgement
3. input user 3 = radio annunciator 3 (utility input)
(allocation to any detector group)

I/O device		Input states	Function value-	
No.	Name		No.	Name
User 3 n	Input 1	IS 0 addressing	0 1 2	ok in trouble not present
		IS 1 alarm addressing	0 1	off on
n+1	Input 2	IS 0 release	0 1 2	off on not present
		IS 1 Alarm_Zykl. Rm	0 1	off on
n+1	Input 3	IS 0 release	0 1 2	off on not present
		IS 1 alarm	0 1	off on
		IS 2 internal blocking	0 1	off on
		IS 3 external blocking	0 1	off on
		IS 4 message	0 1	no first message first message

Configurations-Text - Inputs:
User 3
n: see inputs : B_256ADR_FM3(xxxxx);
n+1: " : B_256OSAB_ZYK_RM(xxxxx);
n+2: " : B_256FM3(xxxxx);

I/O-Type:
14. Addressing Bus 1 MB256
n+1: Tamper Bus 1 MB256
n+2: Input Bus MB256

1. input user 4 = addressing (tamper radio annunciator 4)
2. input user 4 = trouble external signal
3. input user 4 = radio annunciator 4 (utility input)
(allocation to any detector group)

I/O device-		Input states	Function value-	
No.	Name		No.	Name
Partici-pant 4 n	input 1	IS 0 addressing	0 1 2	ok in trouble not present
		IS 1 alarm addressing	0 1	off on
n+1	input 2	IS 0 release external signal	0 1 2	off on not present
n+1	input 3	IS 0 release	0 1 2	off on not present
		IS 1 alarm	0 1	off on
		IS 2 internal blocking	0 1	off on
		IS 3 external blocking		off on
		IS 4 message	0 1	no first message first message

Configurations-Text - inputs:
User 4
n: see inputs : B_256ADR_FM4(xxxxx);
n+1: " : B_256FREMDS(xxxxx);
n+2: " : B_256FM4(xxxxx);

I/O-Type:
14. Addressing Bus 1 MB256
n+1: External signal Bus MB256
n+2: Input Bus MB256

2.2 Bus2- users inputs

Every address/user of BUS 2 occupies 8 inputs. Each of these inputs is monitored by an own I/O device. In total a Bus2-module occupies 512 inputs = 64 users.

Bus2-users: 5 detector groups modules

1. Input = release
2. Input = release
3. Input = release
4. Input = release
5. Input = release
7. Input = housing cover
8. Input = addressing

I/O device-		Input states	Function value-	
No.	Name		No.	Name
n	input 1	IS 0 release	0 1 2	off on not present
		IS 1 Alarm_Offl.	0 1	off on
		IS 2 internal blocking	0 1	off on
		IS 3 external blocking	0 1	off on
		IS 4 message	0 1	no first message first message
		O O O O		
n+4	input 5	IS 0 release	0 1 2	off on not present
		IS 1 Alarm_Offl.	0 1	off on
		IS 2 internal blocking	0 1	off on
		IS 3 external blocking	0 1	off on
		IS 4 message	0 1	no first message first message
n+5	input 6	not used		
n+6	input 7	IS 0 cover	0 1 2	closed opened not opened

		IS 1 alarm cover	0 1	off on
n+7	input 8	IS 0 addressing	0 1 2	ok on trouble not present
		IS 1 alarm address	0 1	off on

Configurations-Text - inputs:

n: see inputs : Eing_256(xxxxx);
:
n+5: " : Eing_256(xxxxx);
n+6: " : B_256DEC(xxxxx);
n+7: " : B_256ADR(xxxxx);

I/O-Type:

Input Bus MB256
:
n+4: Input Bus MB256
n+6: Cover contact Bus MB256
n+7: Addressing Bus MB256

Bus2-user: 5 Outputs-Modules, operating unit

7. input = housing cover
8. input = addressing

I/O device-		Input states	Function value-	
No.	Name		No.	Name
n	input 1	not used		
n+1	input 2	not used		
n+2	input 3	not used		
n+3	input 4	not used		
n+4	input 5	not used		
n+5	input 6	not used		
n+6	input 7	IS 0 cover	0 1 2	closed opened not present
		IS 1 alarm cover	0 1	off on
n+7	input 8	IS 0 addressing	0 1 2	ok on trouble not present
		IS 1 alarm address	0 1	off on

Configurations-Text - inputs:

n+6: see input : B_256DEC(xxxxx);
+7: " : B_256ADR(xxxxx);

I/O-Type:

n+6: Cover contact Bus MB256
n+2: Addressing Bus MB256

Bus2-user: ULTRA2000, SPECTRON3000, DECKTRON3000, SCM3000

1. Input = release
2. Input = cover
3. Input = obstacle (only Ultra200)
   = detector trouble (only SCM3000)
7. Input = housing cover (not SCM3000)
8. Input = addressing

I/O device-		Input states	Function value-	
No.	Name		No.	Name
n	input 1	IS 0 release	0 1 2	off on not present
		IS 1 Alarm_Offl.	0 1	off on
		IS 2 internal blocking	0 1	off on
		IS 3 external blocking	0 1	off on
		IS 4 message	0 1	no first message first message
n+1	input 2	IS 0 cover	0 1 2	off on not present
n+2	input 3	IS 0 obstacle/ trouble	0 1 2	off on not present
n+3	input 4	not used		
n+4	input 5	not used		
n+5	input 6	not used		
n+6	input 7	IS 0 cover	0 1 2	closed opened not present
		IS 1 alarm cover	0 1	off on
n+7	input 8	IS 0 addressing	0 1 2	ok on trouble no trouble
		IS 1 alarm address	0 1	off on

Configurations-Text - inputs:

n :	see inputs	: Eing_256(xxxxx);
n+1:	"	: B_256ABD(xxxxx);
n+2:	"	: B_256HIN(xxxxx);
n+6:	"	: B_256DEC(xxxxx);
n+7:	"	: B_256ADR(xxxxx);

I/O-Type:

14.	Input Bus MB256
n+1:	Cover Bus MB256
n+2:	Obstacle /detector trouble Bus MB256
n+6:	Cover contact Bus MB256
n+7:	Addressing Bus MB256

Bus2-user: Ident-Key1 + Ident-Key2

1. Input = tamper
4. Input = hold-up key code (only Ident-Key2 keyboard)
   allocation to any detector group
5. Input = bolt switching contact
   allocation to any detector group
6. Input = release contact
   allocation to any detector group
7. Input = housing cover
8. Input = addressing

I/O device-		Input states	Function value-	
No.	Name		No.	Name
n	input 1	IS 0 tamper	0 1 2	off on not present
		IS 1 tamper alarm	0 1	off on
n+1	input 2	not used		
n+2	input 3	not used		
n+3	input 4	IS 0 release	0 1 2	off on not present
		IS 1 alarm	0 1	off on
		IS 2 internal blocking	0 1	off on
		IS 3 external blocking	0 1	off on
		IS 4 message	0 1	no first message first message
n+4	input 5	IS 0 release	0 1 2	off on not present
		IS 1 alarm	0 1	off on
		IS 2 internal blocking	0 1	off on
		IS 3 external blocking	0 1	off on
		IS 4 message	0 1	no first message first message

n+5	input 6	IS 0 release	0 1 2	off ein not present
		IS 1 alarm	0 1	off on
		IS 2 internal blocking	0 1	off on
		IS 3 external blocking	0 1	off on
		IS 4 message	0 1	no first message first message
n+6	input 7	IS 0 cover	0 1 2	closed opened not present
		IS 1 alarm cover	0 1	off on
n+7	input 8	IS 0 addressing	0 1 2	ok on trouble not present
		IS 1 alarm address	0 1	off on

Configurations-Text - inputs:

n: see inputs : B_256SAB(xxxxx);
n+4: " : B_256RSK(xxxxx);
n+5: " : B_256OEK(xxxxx);
n+6: " : B_256DEC(xxxxx);
n+7: " : B_256ADR(xxxxx);

I/O-Type:

n tamper Bus 1 MB256
n+3: Hold-up input MB256
n+4: Input Bus MB256
n+5: Input Bus MB256
n+6: Cover contact Bus MB256
n+7: Addressing Bus MB256

13. Ident-Key key switching units 1 - 250

I/O device- No.	Name	Input states	Function value- No.	Name
22001	last key of switching unit 1	IS 0 (digit 4)	0 to 1	key-No. valence 1000
		IS 1 (digit 3)	0 to 9	key-No. valence 100
		IS 2 (digit 2)	0 to 9	key-No. valence 10
		IS 3 (digit 1)	0 to 9	key-No. valence 1
		IS 4 last action	0 1 2 3 4 5 6 7 8	no last action available armed disarmed disarmed + door release door release switching unit locked switching unit unlocked invalid key switching unit locked (intern off)
		0 0 0 0		
22251	last key of switching unit 250	IS 0 (digit 4)	0 to 1	key-No. valence 1000
		IS 1 (digit 3)	0 to 9	key-No. valence 100
		IS 2 (digit 2)	0 to 9	key-No. valence 10
		IS 3 (digit 1)	0 to 9	key-No. valence 1
		IS 4 last action with this key	1 2 3 4 5 6 7 8 9	no last action available armed disarmed disarmed + door release only door release switching unit locked switching unit unlocked invalid key switching unit locked (intern off)

I/O type: 22001-22251 Identkey (last receiving) digit 4

14. Programmable IGIS outputs

I/O device-		Input states	Function value-	
No.	Name		No.	Name
27001	output 1	IS 0 output	0 1 2	inactive active not present
27002	output 2	IS 0 output	0 1 2	inactive active not present
		O O O O		
27400	output 400	IS 0 output	0 1 2	inactive active not present

The output functions which may be displayed are programmed in the central unit and placed on the corresponding output.

Configurations-Text:

PROG_Offgxxx : PG_Offg (00xxx);

I/O type:
27001-28000 Programmable IGIS-Output MB256

Modifications:

Index	Date	Modifications
1	22.08.95	I/O for IBUS-users extended from 16 to 64. Note, that the limit of the max. number of IBUS-users must be taken out of the Installation Manual.
2	28.11.95	I/O for IBUS-users reduced from 64 to 32. Other display of the control functions in main- and secondary zones. I/O reduced from 5000 to 2048. In several I/O insertion of a note for the print out of the I/O number by the control unit.
3	17.01.96	I/O 1001...3048, IS 4 Tamper deleted. This state was in the I/O-list by mistake, but it had no function. The handling of tamper by the MB 256 is different to the MB100. Note for I/O 129...160, IS 3 energy trouble inserted.
4 from V02.02	18.06.97	I/O 531...780, in control function 0 the function value 7 was inserted. I/O 1001...2048, control function 2 erase inserted. I/O 7001...27000, control function 0 erase inserted.
5 from V03.00 (P03.03)	10498	I/O 214...245, erase inserted lock module is wrong. (8 becomes 6, not relevant because only fictive) DS7500 becomes inserted the function value 8. DGA2400 becomes inserted the function value 9.
6 from V03.00 (P04.00)	13.05.98	I/O 27001...27400, Programmable outputs inserted.
7 from V03.00	17.06.98	MI/O 214...245, Input state 4 tamper inserted. (when malfunction of IBUS-module tamper is activated)
8 from V03.00	29.09.98	I/O 7001...22000. The end of the I/O "Inputs" was reduced from 27000 to 22000.
9 from V04.00 (P04.02)	10.12.98	I/Os “ Ident-Key key switching units” 22001 - 22251 inserted
10 from P04.02	16.12.98	I/O “Groups” 1001 - 3048. Input state 4 tamper bus users inserted (cover contact or not addressable)
11 from P04.06	17.11.99	I/O “Eingänge” 7001 - 22000 Control function 0 “erase” became control function 2. Control function 0 “Internal blocking/unblocking” inserted. Control function 1 “External blocking/unblocking” inserted.
12 from P04.06	17.11.99	I/O “Zones” 531 - 780 Control function 1 “acoustic out” inserted.
13 from P04.07	03.03.00	Implementation of radio module.
14 from P05.01	17.04.01	I/O 6001-6250 (Macro-releasing) inserted.
15 from P05.02	18.06.01	I/O 531-780 Zones. Input state 4: - function value 2 = fire alarm inserted - function value 3 = technic alarm + fire alarm inserted Control function 0: - function value 8 = clearing fire alarm inserted

2.7 Connection of the control unit EMC 561-MB256 plus

External access for main zones

In the WINFEM menü “Properties” checkbox “Enable Control Center (WINMAG) you can enable/disable (via WINMAG) external access for every main zone and the pertaining sub-zones. Execution of the following control functions is not possible if the main zone is disabled:

- External arming of the main zone
- External/internal arming of the pertaining sub-zones
- Disarm the externally armed main zone
- Disarm externally armed secondary zone or internally armed secondary zone
- External disabling/enabling of detector groups of main zone and the pertaining sub-zones
- Clear tamper
- Reset
- Clear detector groups
- Clear detector group users
- Triggering of macros

All other control functions such as:

- Define/clear control outputs
- Disable/enable intrusion detection groups
- main zone delayed internal arming
- main zone not delayed internal arming
- Switch main zone from internal arming to unarmed
- Clear technical alarm
- Clear fire alarm
- Clear messages

are always enabled irrelevant of the programming of “External access main zone”.

1. Tamper loudspeaker

I/O device-		Input states	Function value-	
No.	Name		No.	Name
1	loudspeaker module 1	IS 0 tamper	0 1 2	no released not present
2	loudspeaker module 2	IS 0 tamper	0 1 2	no released not present
		o o o o		
32	loudspeaker module 32	IS 0 tamper	0 1 2	no released not present

The loudspeaker only is present (ok), if module x (1-32) is a connection module and the feature is programmed.

Configurations-Text:
loudspeaker_xx : SY_sabo(xxxxx);

I/O type: 1-32 System sabotage MB256

1. 1 Tamper Loudspeaker Conn. PCP

I/O device-		Input states	Function value-	
No.	Name		No.	Name
33	loudspeaker Conn. PCP	IS 0 tamper	0 1 2	no released not present

The loudspeaker is always present (ok), if the feature is programmed.

Configurations-Text:
loudspeaker_xx : SY_sabo(xxxxx);

I/O-type: 33 System Sabotage MB256

2. Tamper flash flashing lamp

I/O device-		Input states	Function value-	
No.	Name		No.	Name
65	flashing lamp module 1	IS 0 tamper	0 1 2	no released not present
66	flashing lamp module 2	IS 0 tamper	0 1 2	no released not present
		o o o o		
96	flashing lamp module 32	IS 0 tamper	0 1 2	no released not present

The flashing lamp only is present (ok), if module x (1-32) is a connection module and the feature is programmed.

Configurations-Text:

flashing lamp xx: SY_sabo(xxxxx);
I/O type: 65-96 System sabotage MB256

2. 1 Tamper flash flashing lamp Conn. PCP

I/O device-		Input states	Function value-	
No.	Name		No.	Name
97	flashing lamp Conn. PCP	IS 0 tamper	0 1 2	no released not present

The flashing lamp always is present (ok), if the feature is programmed.

Configurations-Text:

flashing lamp xx : SY_sabo(xxxxx);
I/O type: 97 System sabotage MB256

3. Energy trouble

I/O device-		Input states	Function value-	
No.	Name		No.	Name
129	energy trouble module 1	IS 0 programming	0 1	not present present
		IS 1 battery	0 1	ok error
		IS 2 battery storage	0 1	off on
		IS 3 ***)** AC	0 1	ok on trouble
		o o o o		
160	energy trouble module 32	IS 0 programming	0 1	not present present
		IS 1 battery	0 1	ok error
		IS 2 battery storage	0 1	off on
		IS 3 ***)** AC	0 1	ok on trouble

The energy trouble only is present (ok), if module x (1-32) is a connection module and the feature has been programmed.

*) The output "AC on trouble" appears with a delay of 20 seconds.

Configurations-Text:

Energy_trouble_xx : ENS_256(xxxxx);

I/O type: 129-160 Energy trouble M256

3. 1 Energy trouble Conn. PCP

I/O device- No.	Name	Input states	Function value- No.	Name
161	energy trouble Conn. PCP 1	IS 0 programming	0 1	not present present
		IS 1 battery	0 1	ok error
		IS 2 battery storage	0 1	off on
		IS 3 *) AC	0 1	ok on trouble

The energy trouble always is present (ok), if the feature has been programmed.

*) The output "AC on trouble" appears with a delay of 20 seconds.

Configurations-Text:

Energy_trouble_xx: ENS_256(xxxxx);

I/O type: 161 Energy trouble M256

3. 2 Energy trouble IGIS-LOOP Tableau

I/O device- No.	Name	Input states	Function value- No.	Name
162	energy trouble tableau 1	IS 0 programming	0 1	not present present
		IS 1 battery	0 1	ok error
		IS 2 battery storage	0 1	off on
		IS 3 *) AC	0 1	ok on trouble
		O O O O		
171	energy trouble tableau 10	IS 0 programming	0 1	not present present
		IS 1 battery	0 1	ok error
		IS 2 battery storage	0 1	off on
		IS 3 *) AC	0 1	ok on trouble

The energy trouble only is present (ok), if the feature for IGIS-LOOP tableau x (1-10) has been programmed.

*) The output "AC on trouble" appears with a delay of 20 seconds.

Configurations-Text:

Energy_trouble_xx: ENS_256(xxxxx);

I/O type: 162-171 Energy trouble MB256

4. Processor error

I/O device-		Input states	Function value-	
No.	Name		No.	Name
193	processor	IS 0 trouble Eprom/ RAM	0 1	off on

Configurations-Text:

Rechner_Stoerung : SY_mc(00193);

I/O type: 193 processor trouble MB256

5. Printer error

I/O device-		Input states	Function value-	
No.	Name		No.	Name
194	printer 1	IS 0 programming	0 1	not present present
		IS 1 general trouble	0 1	ok on trouble
		IS 2 paper	0 1	ok empty
195	printer 2	IS 0 programming	0 1	not present present
		IS 1 general trouble	0 1	ok on trouble
		IS 2 Papier	0 1	ok empty
		o o o o		
213	printer 20	IS 0 programming	0 1	not present present
		IS 1 general trouble	0 1	ok on trouble
		IS 2 paper	0 1	ok empty

Currently only printer 1 and printer 2 available.

Configurations-Text:

Printer error_xx: SY_Druck(00xxx);

I/O type: 194-213 Printer state MB256

6. User-Stati IBUS-users

I/O device- No.	I/O device- Name	Input states	Function value- No.	Function value- Name
214	user 1 I-BUS	IS 0 type of user	0 1 2 3 4 5 6 7 8 9 10 11	not present group detector bus I/O keyboard not in use AWUG DS7500 ISDN DGA2400 DS 8500 IGIS LOOP- module
		IS 1 IBUS-addressing	0 1	ok error
		IS 2 trouble Eprom/RAM	0 1	off on
		IS 3 ***2)** trouble 1	0 1	off on
		IS 4 tamper	0 1	off on
		IS 5 trouble 3	0 1	off on
		IS 6 trouble 4	0 1	off on
		IS 7 trouble 5	0 1	off on
215	user 2 I-BUS	IS 0 type of user	0 1	not present group module ...
		...	...	...
		O O O O		
245	user 32 I-BUS	...	...	...
		IS 6 trouble 4	0 1	off on
		IS 7 trouble 5	0 1	off on

*2) At detector bus and data bus modules: trouble BUS

Configurations-Text:

user : SY_IBUS(002xx);

I/O type: 214-245 user IBUS MB256

7. Switching devices 1-250

I/O device-		Input states	Function value-	
No.	Name		No.	Name
281	switching device 1 ***1)**	IS 0 switching position	0 1 2	open closed not present
		IS 1 operation possible	0 1	yes no
		IS 2 tamper housing	0 1	off on
		IS 3 tamper line	0 1	off on
		IS 4 ***2)** addressing	0 1	ok on trouble
		IS 5 zone digit 3	0 . . 9	zero . . nine
		IS 6 zone digit 2	0 . . 9	zero . . nine
		IS 7 zone digit 1	0 . . 9	zero . . nine
		o o o o		
530	switching device 250	...		...

*1) The numbering of the switching devices corresponds to the internal numbering in the central unit MB256 and not to the numbering referring to the display/output.

*2) only if the switching device is connected to a bus.

Configurations-Text:

HBxxx_UBxxx_SExxx : Sch_256(00xxx);

HBxxx_UBxxx_SExxx : SchB_256(00xxx); {switching device Bus}

I/O type: 281-530 Switching device unit MB256

8. Zones 1...250

I/O device- No.	I/O device- Name	Input states / Output states	Function value- No.	Function value- Name
531	Zone 1 ***1)**	IS 0 activation status	0 1 2 3	disarmed internally armed externally armed not present
		IS 1 intruder alarm	0 1	off on
		IS 2 hold-up alarm	0 1	off on
		IS 3 tamper alarm	0 1	off on
		IS 4 receipt alarm	0 1	off on
		IS 5 trouble 2 ext. blocked	0 1	off on
		IS 6 ext. positive drive	0 1	no yes
		IS 7 audit	0 1	off on
		OS 0 ***2)** switch	0 1 2 3 4 5 6 7 8	disarm internally armed delayed armed delete delete tamper delete general delete technic external armed delete fire alarm
		OS 0 ***3)** switch	0 1	disarm armed
532	zone 2	IS 0 activation status	0 1 2 3	disarmed internally armed externally armed not present
		O O O O		
780	zone250	IS 0 activation status	0 1 2 3	disarmed internally armed externally armed not present

1) Numbering of the zones corresponds to the MB256 internal numbering and not the numbering in the form of main and sub-zones as displayed/printout at the central unit.

*2) Switching functions if zone is programmed as **main zone** in the MB256.

*3) Switching functions if zone is programmed as **sub-zone** in the MB256.

Configurations-Text:

Hbxxx : HB_256(00xxx); {for main zones}
HBxxxUBxxx : HBUB_256(00xxx); {for secondary zones}

I/O type: 531-780 Main zone MB256

I/O devices 781 to 800 are reserved for enlargement

9. Controllable outputs

I/O device-		Input states / Output states	Function value-	
No.	Name		No.	Name
801	IGIS control output 1	OS 0 switching	0 1	off on
		IS 0 switch (acknowledgement)	0 1	off on
802	IGIS control output 2	OS 0 switching	0 1	off on
		IS 0 switch (acknowledgement)	0 1	off on
		O O O O		
900	IGIS control output 100	OS 0 switching	0 1	off on
		IS 0 switch (acknowledgement)	0 1	off on

Configurations-Text:
IGIS_Control output xxx: IG_output(001xx);
I/O type: 801-900 IGIS output MB256

10. Groups 1 - 2048

I/O device- No.	I/O device- Name	Input states / Output states	Function value- No.	Function value- Name
1001 Group 01	monitoring states	IS 0 condition	0 1 2	ok released not present
		IS 1 attack alarm	0 1	off on
		IS 2 internal blocking	0 1	off on
		IS 3 external blocking	0 1	off on
		IS 4 tamper	0 1	off on
		IS 5 zone digit 3	0 1 2	zero twelve
		IS 6 zone digit 2	0 . 9	zero . nine
		IS 7 zone digit 1	0 . 9	zero . nine
	control function	OS 0 internal blocking	0 1	off on
		OS 1 external blocking	0 1	off on
		OS 2 erase	0	erase
		O O O O		
3048 Group 2048	control function	OS 1 external blocking	0 1	off on
		OS 2 erase	0	erase

Configurations-Text:

Group_xxxx: Grp_256(0xxxx);

I/O type: 1001-3048 Group intrusion
Group intrusion filtered MB256

11. Macro-releasing

I/O device-		Input states / Output states	Function value-	
No.	Name		No.	Name
6001	IGIS start 1	OS 0 switch	1	start
6002	IGIS start 2	OS 0 switch	1	start
O O O O				
6250	IGIS start 250	OS 0 switch	1	start

Configurations-Text:

IGIS_Makro_Offlxxx : MK_Offl(001xx);

I/O type: 6001-6250 Start macro MB256

12. Inputs 1 - 15000

I/O device- No.	I/O device- Name	Input states / Output states	Function value- No.	Function value- Name
7001	Input 1	IS 0 release	0 1 2	ok released not present
		IS 1 alarm released	0 1	off on
		IS 2 internal blocking	0 1	off on
		IS 3 external blocking	0 1	off on
		IS 4 message	0 1	no first message first message
	control function	OS 0 internal blocking	0 1	off on
	control function	OS 1 external blocking	0 1	off on
	control function	OS 2 erase	0	erase
7002	input 2	IS 0 release	0 1 2	ok released not present
		IS 1 alarm	0 1	off on
		IS 2 internal blocking	0 1	off on
		IS 3 external blocking	0 1	off on
		IS 4 message	0 1	no first message first message
	control function	OS 0 internal blocking	0 1	off on
	control function	OS 1 external blocking	0 1	off on
	control function	OS 2 erase	0	erase

O O O O

22000	input 15000	IS 0 release	0 1 2	ok released not present
		IS 1 alarm	0 1	off on
		IS 2 internal blocking	0 1	off on
		IS 3 external blocking	0 1	off on
		IS 4 message	0 1	no first message first message
	control function	OS 0 internal blocking	0 1	released blocked
	control function	OS 1 external blocking	0 1	released blocked
	control function	OS 2 erase	0	erase

Configurations-Text - Inputs:

Grp_Modxx_TInxx	: input_256(xxxxx);	{Group module}
Ta_Modxx_TInx_Ue	: input_256(xxxxx);	{keyboard module}
Ta_Modxx_TInx_UeS	: input_256(xxxxx);	{hold-up}
MB_Modxx_TInxxx_Eing	: input_256(xxxxx);	{hold-up silent}
MB_Modxx_TInxxx_nadr	: input_256(xxxxx);	{detector/Bus1-module}
MB_Modxx_TInxxx_DK	: input_256(xxxxx);	{data/Bus2-module}
DB_Modxx_TInxx_Eingx	: input_256(xxxxx);	{input}
DB_Modxx_TInxx_nadr	: input_256(xxxxx);	{not addressable}
DB_Modxx_TInxx_DK	: input_256(xxxxx);	{cover contact}

I/O type: 7001-22000 Group intrusion MB256

Bus user inputs

The inputs are numbered (internally) consecutively. Counted in the sequence of the existing modules.
The input number of the 1. input of every user is specified in the print out of programming. (Documentation of WINFEM)
You get the I/O device number by adding the I/O device No. offset (for inputs 7000) to the input number.

Every module occupies the following number of inputs:

Module	Input/modules	Inputs/usert.	1. user addr.
internal reserved	250		
Bus2/databus	512	8	user0=Adr0
Bus1/detector bus	756	3	user1=Adr1
E/A Basic module	32	1	
Keyboardmodule	8	1	
Connection-basic module	5	1	
DS6500 AWUG	1	1	
DS7500 ISDN	1	1	
DGA2400	1	1	
DS8500	1	1	
IGIS LOOP Module	1	1	

Behind the corresponding IGIS-LOOP module 13 further inputs are reserved for each IGIS-LOOP tableau

Examples:

Example configuration of a central unit:

1. Module	Bus2module	01
2. Module	connection module	01
3. Module	Bus1module	01
4. Module	E/A basic module	01
5. Module	E/A basic module	02
6. Module	IGIS-LOOP module	
	1. IGIS-LOOP tableau	
	2. IGIS-LOOP tableau	

1. Input of user 11 from Bus2 -> I/O No. ?
Input 250 + 11*8 + 1 = **339**
I/O No. 7000 + 339 = 7339

1. Input of user 11 from Bus1 -> I/O No. ?
Input 250 + 512 + 5 + 10*3 + 1 = **798**
I/O No. + 798 = 7798

1. Input of E/A basic module 01 -> I/O No.?
Input 250 + 512 + 5 + 756 + 1 = **1524**
I/O No. 7000 + 1524 = 8524

1. Input of 2. IGIS-LOOP tableau -> I/O No.?
Input 250 + 512 + 5 + 756 + 32 + 1 + 13 + 1 = **1602**
I/O No. 7000 + 1602 = 8602

12. 1 Inputs Conn. PCP, 28001 - 28717

I/O device-		Input states / Output states	Function value-	
No.	Name		No.	Name
28001	Input 1	IS 0 release	0 1 2	ok released not present
		IS 1 alarm released	0 1	off on
		IS 2 internal blocking	0 1	off on
		IS 3 external blocking	0 1	off on
		IS 4 message	0 1	no first message first message
	control function	OS 0 internal blocking	0 1	off on
	control function	OS 1 external blocking	0 1	off on
	control function	OS 2 erase	0	erase
28002	input 2	IS 0 release	0 1 2	ok released not present
		IS 1 alarm	0 1	off on
		IS 2 internal blocking	0 1	off on
		IS 3 external blocking	0 1	off on
		IS 4 message	0 1	no first message first message
	control function	OS 0 internal blocking	0 1	off on
	control function	OS 1 external blocking	0 1	off on
	control function	OS 2 erase	0	erase

O O O O

28717	input 717	IS 0 release	0 1 2	ok released not present
		IS 1 alarm	0 1	off on
		IS 2 internal blocking	0 1	off on
		IS 3 external blocking	0 1	off on
		IS 4 message	0 1	no first message first message
	control function	OS 0 internal blocking	0 1	released blocked
	control function	OS 1 external blocking	0 1	released blocked
	control function	OS 2 erase	0	erase

Configurations-Text - Inputs:

Conn. PCP _EA_TInxx:	Input_256(xxxxx);	{EA Input}
Conn. PCP_TInxxx_Eing:	Input_256(xxxxx);	{BUS-1 Input}
Conn. PCP_TInxxx_nadr:	Input_256(xxxxx);	{BUS-1 not adressable}
Conn. PCP_TInxxx_DK:	Input_256(xxxxx);	{BUS-1 cover contact}
Conn. PCP_TInxx_Eingx:	Input_256(xxxxx);	{BUS-2 Input}
Conn. PCP_TInxx_nadr:	Input_256(xxxxx);	{BUS-2 not adressable}
Conn. PCP_TInxx_DK:	Input_256(xxxxx);	{BUS-2 cover contact}

I/O-Type: 28001-28717

12.2 Connection PCP-User-Inputs

The inputs are numbered (internally) consecutively. Counted in the sequence of the existing modules.

The input number of the 1. input of every user is specified in the print out of programming. (Documentation of WINFEM)

You get the I/O device number by adding the I/O device No. offset (for inputs 28001) to the input number.
The Conn. PCP (connecting-PCP) reserves the following number of inputs:

	Input/modules	Inputs/user	1. user addr.
Conn. PCP E/A	16	1	
Conn. PCP BUS-1	189	3	
Conn. PCP BUS-2	512	8	
Total intern:	**717**		

Examples:

1. Input of user 11 from Conn. PCP BUS-2 -> I/O No. ?

Input	16 + 189 + 11*8 + 1	=	294
I/O No.	28000 + 294	=	28294

1. Input of user 11 from Conn. PCP BUS-1 -> I/O No. ?

Input	16 + 10*3 + 1	=	47
I/O No.	28000 + 47	=	28047

1. Input of Conn. PCP E/A -> I/O No. ?

Input	1	=	1
I/O No.	28000 + 1	=	28001

12.3 Conn. PCP EA-Inputs

The inputs have the following affiliation:

1. Input = depending on prog. (differential input, lock, external operating unit)
2. Input = depending on prog. (differential input, lock, external operating unit)
3. Input = depending on prog. (differential input, lock, external operating unit)
4. Input = depending on prog. (differential input, lock, external operating unit)
5. Input = tamper siren 1
6. Input = tamper siren 2
7. Input = tamper flash lamp
8. Input = mains supply
9. Input = battery
10. Input = battery main alarm

12.4 Bus1-users-inputs

Every address/user on the bus occupies 3 inputs. Every one of these inputs is displayed by way of own I/O device. A bus1 module occupies a total of 756 inputs = 252 users = 63 users/line.

Bus1 users: **group modules, standard detectors, window sensors, universal detectors, logic detectors**

The various types of standard bus1 users occupy one address = one user on bus1. Every user occupies 3 inputs resp. 3 I/O devices. The inputs have the following affiliation:

1. Input = addressing
2. Input = release
3. Input = tamper

I/O device-		Input states	Function value-	
No.	Name		No.	Name
n	input 1	IS 0 addressing	0 1 2	ok error not present
		IS 1 alarm adress	0 1	off on
n+1	input 2	IS 0 release	0 1 2	ok error not present
		IS 1 alarm	0 1	off on
		IS 2 internal blocking	0 1	off on
		IS 3 external blocking	0 1	off on
		IS 4 message	0 1	- first message
n+2	input 3	IS 0 tamper	0 1 2	off on not present
		IS 1 tamper alarm	0 1	off on

Configurations-Text - inputs:

n: see inputs : B_256ADR(xxxxx);
n+1: " : Eing_256(xxxxx);
n+2: " : B_256SAB(xxxxx);

I/O type:

n: Addressing BUS 1 MB256
n+1: Input BUS MB256
n+2: Tamper BUS 1 MB256

Bus1-user: Lock release module

The lock release module occupies one address = a user on bus1. Every user occupies 3 inputs resp., 3 I/O devices. The inputs have the following affiliation:

1. Input = addressing
2. Input = lock release
3. Input = tamper

I/O device-		Input states	Function value-	
No.	Name		No.	Name
n	input 1	IS 0 addressing	0 1 2	ok error not present
		IS 1 alarm address	0 1	off on
n+1	input 2	IS 0 lock release	0 1 2	missing present not present
n+2	input 3	IS 0 tamper	0 1 2	off on not present
		IS 1 tamper alarm	0 1	off on

Configurations-Text - inputs:

n: see inputs : B_256ADR(xxxxx);
n+1: " : B_256SFG(xxxxx);
n+2: " : B_256SAB(xxxxx);

I/O type:

n: Addressing BUS 1 MB256
n+1: Lock release BUS MB256
n+2: Tamper BUS 1 MB256

Bus1-users: Interfacing module, remote display, indoor siren

The users occupy an address = a user of BUS-1. Every user occupies 3 inputs and/or 3 I/O devices. The inputs have the following affiliation:

1. Input = addressing
3. Input = tamper

I/O device-		Input states	Function value-	
No.	Name		No.	Name
n	input 1	IS 0 addressing	0 1 2	ok error not present
		IS 1 alarm address	0 1	off on
n+1	input 2	not used		
n+2	input 3	IS 0 tamper	0 1 2	off on not present
		IS 1 alarm tamper	0 1	off on

Configurations-Text - inputs:

n: see inputs : B_256ADR(xxxxx);
n+2: see inputs : B_256SAB(xxxxx);

I/O type:

n: Addressing BUS 1 MB256
n+2: Tamper BUS 1 MB256

Bus1-user: Lock module

The lock module occupies an address = a user of BUS-1. Every user occupies 3 inputs and/or 3 I/O devices. The inputs have the following affiliation:

1. Input = addressing
2. Input = activation state
3. Input = tamper

I/O device-		Input states	Function value-	
No.	Name		No.	Name
n	input 1	IS 0 addressing	0 1 2	ok error not present
		IS 1 alarm address	0 1	off on
n+1	input 2	IS 0 activation state	0 1 2	armed disarmed not present
n+2	input 3	IS 0 tamper	0 1 2	off on not present
		IS 1 tamper alarm	0 1	off on

Configurations-Text - inputs:

n: see inputs : B_256ADR(xxxxx);
n+1: " : B_256SIS(xxxxx);
n+2: " : B_256SAB(xxxxx);

I/O type:

n: Addressing BUS 1 MB256
n+1: Activation state BUS MB256
n+2: Tamper BUS 1 MB256

Bus1- user: Operating unit-module

The operating unit module occupies two addresses = two users of BUS-1. Every user occupies 3 inputs and/or 3 I/O devices. The inputs have the following affiliation:

1. input user 1 = addressing
3. input user 1 = tamper

I/O device-		Input states	Function value-	
No.	Name		No.	Name
User 1 n	input 1	IS 0 addressing	0 1 2	ok error not present
		IS 1 alarm address	0 1	off on
n+1	input 2	not in use		
n+2	input 3	IS 0 tamper	0 1 2	off on not present
		IS 1 tamper alarm	0 1	off on

Configurations-Text - Inputs:

user1

n: see inputs : B_256ADR(xxxxx);

n+2: " : B_256SAB(xxxxx);

I/O type:

n: Addressing BUS 1 MB256

n+2: Tamper BUS 1 MB256

1. Input user 2 = addressing
2. Input user 2 = Off
3. Input user 2 = On

I/O device-		Input states	Function value-	
No.	Name		No.	Name
user 2 n	input 1	IS 0 addressing	0 1 2	ok error not present
		IS 1 alarm address	0 1	off on
n+1	input 2	IS 0 operating unit off	0 1 2	not activated activated not present
n+2	input 3	IS operating unit off	0 1 2	not activated activated not present

Configurations-Text - Inputs:

user2
n: see inputs : B_256ADR(xxxxx);
n+1: " : B_256Off(xxxxx);
n+2: " : B_256EIN(xxxxx);

I/O type:

n: Addressing BUS 1 MB256
n+1: Operating unit off BUS MB256
n+2: Operating unit on BUS MB256

Bus1-user: Door-/ door arming module

The door-/ door arming module occupies 3 addresses = 3 users of BUS-1. Every user occupies 3 inputs and/or 3 I/O devices. The inputs have the following affiliation:

1. Input user 1 = addressing
2. Input user 1 = release contact
   allocation to any detector group
3. Input user 1 = tamper

I/O device- No.	I/O device- Name	Input states	Function value- No.	Function value- Name
user 1 n	input 1	IS 0 addressing	0 1 2	ok error not present
		IS 1 alarm address	0 1	off on
n+1	input 2	IS 0 release	0 1 2	off on not present
		IS 1 alarm released	0 1	off on
		IS 2 internal blocking	0 1	off on
		IS 3 external blocking	0 1	off on
		IS 4 message	0 1	no first message first message
n+2	input 3	IS 0 tamper	0 1 2	off on not present
		IS 1 tamper alarm	0 1	off on

Configurations-Text - inputs:

user1

n: see inputs : B_256ADR(xxxxx);
n+1: " : B_256OEK(xxxxx);
n+2: " : B_256SAB(xxxxx);

I/O type:

n: Addressing BUS 1 MB256
n+1: Input BUS MB256
n+2: Tamper BUS 1 MB256

1. Input user 2 = addressing
2. Input user 2 = disarmed input
3. Input user 2 = armed input

I/O device-		Input states	Function value-	
No.	Name		No.	Name
user 2 n	input 1	IS 0 addressing	0 1 2	ok error not present
		IS 1 Alarm_Adres.	0 1	off on
n+1	input 2	IS 0 disarmed input	0 1 2	off on not present
n+2	input 3	IS armed input	0 1 2	off on not present

Configurations-Text - inputs:

user2

n:	see inputs	: B_256ADR(xxxxx);
n+1:	"	: B_256USE(xxxxx);
n+2:	"	: B_256SEI(xxxxx);

I/O type:

n:	Addressing BUS 1 MB256
n+1:	Disarmed input BUS MB256
n+2:	Armed input BUS MB256

1. Input user 3 = addressing
2. Input user 3 = lock release
allocation to any detector group
3. Input user 3 = bolt switching contact
allocation to any detector group

I/O device- No.	I/O device- Name	Input states	Function value- No.	Function value- Name
User 3 n	input 1	IS 0 addressing	0 1 2	ok on trouble not present
		IS 1 alarm address	0 1	off on
n+1	input 2	IS 0 lock release	0 1 2	off on not present
		IS 1 Alarm_Offl.	0 1	off on
		IS 2 internal blocking	0 1	off on
		IS 3 external blocking	0 1	off on
		IS 4 message	0 1	no first message first message
n+2	input 3	IS 0 release	0 1 2	off on not present
		IS 1 Alarm_Offl.	0 1	off on
		IS 2 internal blocking	0 1	off on
		IS 3 external blocking	0 1	off on
		IS 4 message	0 1	no first message first message

Configurations-Text - inputs:

user3
n: see inputs : B_256ADR(xxxxx);
n+1: " : B_256SFG(xxxxx);
n+2: " : B_256RSK(xxxxx);

I/O type:
n: Addressing BUS 1 MB256
n+1: Lock release BUS MB256
n+2: Bolt switching contact BUS MB256

Bus1-user: Radio-module

The radio-module occupies 4 addresses = 4 users of BUS-1. Every user occupies 3 inputs and/or 3 I/O devices. The inputs have the following affiliation:

1. Input user 1 = addressing (tamper radio annunciator)
2. Input user 1 = radio annunciator 1 (utility input)
   allocation to any detector group
3. Input user 1 = tamper cover contact

I/O device-		Input states	Function value-	
No.	Name		No.	Name
user 1 n	Input 1	IS 0 adressing	0 1 2	ok in trouble not present
		IS 1 alarm adressing	0 1	off on
n+1	Input 2	IS 0 release	0 1 2	off on not present
		IS 1 alarm	0 1	off on
		IS 2 internal blocking	0 1	off on
		IS 3 external blocking	0 1	off on
		IS 4 message	0 1	no first message first message
n+2	Input 3	IS 0 tamper	0 1 2	off on not present
		IS 1 alarm cover contact	0 1	off on

Configurations-Text - Inputs:

User 1

n: see inputs : B_256ADR_FM1(xxxxx);
n+1: " : B_256FM1(xxxxx);
n+2: " : B_256SAB_DECKEL(xxxxx);

I/O Type:

14. Addressing Bus 1 MB256
n+1: Input Bus MB256
n+2: Cover contact Bus MB256

1. input user 2 = Addressing (tamper radio annunciator 2)
2. input user 2 = battery trouble
3. input user 2 = radio annunciator 2 (utility input)
(allocation to any detector group)

I/O device-		Input states	Function value-	
No.	Name		No.	Name
user 2 n	Input 1	IS 0 addressing	0 1 2	ok in trouble not present
		IS 1 alarm addressing	0 1	off on
n+1	Input 2	IS 0 release battery trouble	0 1 2	off on not present
n+1	Input 3	IS 0 release	0 1 2	off on not present
		IS 1 alarm	0 1	off on
		IS 2 internal blocking	0 1	off on
		IS 3 external blocking	0 1	off on
		IS 4 message	0 1	no first message first message

Configurations-Text - Inputs:
User 2
n: see inputs : B_256ADR_FM2(xxxxx);
n+1: " : B_256BATT(xxxxx);
n+2: " : B_256FM2(xxxxx);

I/O-Type:
Addressing Bus 1 MB256
n+1: Battery trouble Bus MB256
n+2: Input Bus MB256

1. input user 3 = addressing (tamper radio annunciator 3)
2. input user 3 = tamper cyclic acknowledgement
3. input user 3 = radio annunciator 3 (utility input)
(allocation to any detector group)

I/O device		Input states	Function value-	
No.	Name		No.	Name
User 3 n	Input 1	IS 0 addressing	0 1 2	ok in trouble not present
		IS 1 alarm addressing	0 1	off on
n+1	Input 2	IS 0 release	0 1 2	off on not present
		IS 1 Alarm_Zykl. Rm	0 1	off on
n+1	Input 3	IS 0 release	0 1 2	off on not present
		IS 1 alarm	0 1	off on
		IS 2 internal blocking	0 1	off on
		IS 3 external blocking	0 1	off on
		IS 4 message	0 1	no first message first message

Configurations-Text - Inputs:
User 3
n: see inputs : B_256ADR_FM3(xxxxx);
n+1: " : B_256OSAB_ZYK_RM(xxxxx);
n+2: " : B_256FM3(xxxxx);

I/O-Type:
14. Addressing Bus 1 MB256
n+1: Tamper Bus 1 MB256
n+2: Input Bus MB256

1. input user 4 = addressing (tamper radio annunciator 4)
2. input user 4 = trouble external signal
3. input user 4 = radio annunciator 4 (utility input)
(allocation to any detector group)

I/O device-		Input states	Function value-	
No.	Name		No.	Name
User 4 n	input 1	IS 0 addressing	0 1 2	ok in trouble not present
		IS 1 alarm addressing	0 1	off on
n+1	input 2	IS 0 release external signal	0 1 2	off on not present
n+1	input 3	IS 0 release	0 1 2	off on not present
		IS 1 alarm	0 1	off on
		IS 2 internal blocking	0 1	off on
		IS 3 external blocking		off on
		IS 4 message	0 1	no first message first message

Configurations-Text - inputs:

User 4
n: see inputs : B_256ADR_FM4(xxxxx);
n+1: " : B_256FREMDS(xxxxx);
n+2: " : B_256FM4(xxxxx);

I/O-Type:
14. Addressing Bus 1 MB256
n+1: External signal Bus MB256
n+2: Input Bus MB256

12.5 Bus2- users inputs

Every address/user of BUS 2 occupies 8 inputs. Each of these inputs is monitored by an own I/O device.

Conn. PCP: In total Conn. PCP Bus2-module occupies 512 inputs = 64 users.

IE: In total a Bus2-module occupies 512 inputs = 64 users.

Bus2-users: 5 detector groups modules

1. Input = release
2. Input = release
3. Input = release
4. Input = release
5. Input = release
7. Input = housing cover
8. Input = addressing

I/O device- No.	I/O device- Name	Input states	Function value- No.	Function value- Name
n	input 1	IS 0 release	0 1 2	off on not present
		IS 1 Alarm_Offline	0 1	off on
		IS 2 internal blocking	0 1	off on
		IS 3 external blocking	0 1	off on
		IS 4 message	0 1	no first message first message
		O O O O		
n+4	input 5	IS 0 release	0 1 2	off on not present
		IS 1 Alarm_Offline	0 1	off on
		IS 2 internal blocking	0 1	off on
		IS 3 external blocking	0 1	off on
		IS 4 message	0 1	no first message first message
n+5	input 6	not used		
n+6	input 7	IS 0 cover	0 1 2	closed opened not opened
		IS 1 alarm cover	0 1	off on
n+7	input 8	IS 0 addressing	0 1 2	ok on trouble not present

		IS 1 alarm address	0 1	off on

Configurations-Text - inputs:

n: see inputs : Eing_256(xxxxx);
:
n+5: " : Eing_256(xxxxx);
n+6: " : B_256DEC(xxxxx);
n+7: " : B_256ADR(xxxxx);

I/O-Type:

Input Bus MB256
:
n+4: Input Bus MB256
n+6: Cover contact Bus MB256
n+7: Addressing Bus MB256

Bus2-user: **5 Outputs-Modules, operating unit**
7. input = housing cover
8. input = addressing

I/O device- No.	Name	Input states	Function value- No.	Name
n	input 1	not used		
n+1	input 2	not used		
n+2	input 3	not used		
n+3	input 4	not used		
n+4	input 5	not used		
n+5	input 6	not used		
n+6	input 7	IS 0 cover	0 1 2	closed opened not present
		IS 1 alarm cover	0 1	off on
n+7	input 8	IS 0 addressing	0 1 2	ok on trouble not present
		IS 1 alarm address	0 1	off on

Configurations-Text - inputs:

n+6: see input : B_256DEC(xxxxx);
+7: " : B_256ADR(xxxxx);

I/O-Type:

n+6: Cover contact Bus MB256
n+2: Addressing Bus MB256

Bus2-user: ULTRA2000, SPECTRON3000, DECKTRON3000, SCM3000

1. Input = release
2. Input = cover
3. Input = obstacle (only Ultra200)
   = detector trouble (only SCM3000)
7. Input = housing cover (not SCM3000)
8. Input = addressing

I/O device-		Input states	Function value-	
No.	Name		No.	Name
n	input 1	IS 0 release	0 1 2	off on not present
		IS 1 Alarm_Offl.	0 1	off on
		IS 2 internal blocking	0 1	off on
		IS 3 external blocking	0 1	off on
		IS 4 message	0 1	no first message first message
n+1	input 2	IS 0 cover	0 1 2	off on not present
n+2	input 3	IS 0 obstacle/ trouble	0 1 2	off on not present
n+3	input 4	not used		
n+4	input 5	not used		
n+5	input 6	not used		
n+6	input 7	IS 0 cover	0 1 2	closed opened not present
		IS 1 alarm cover	0 1	off on
n+7	input 8	IS 0 addressing	0 1 2	ok on trouble no trouble
		IS 1 alarm address	0 1	off on

Configurations-Text - inputs:

n :	see inputs	: Eing_256(xxxxx);
n+1:	"	: B_256ABD(xxxxx);
n+2:	"	: B_256HIN(xxxxx);
n+6:	"	: B_256DEC(xxxxx);
n+7:	"	: B_256ADR(xxxxx);

I/O-Type:

14.	Input Bus MB256
n+1:	Cover Bus MB256
n+2:	Obstacle /detector trouble Bus MB256
n+6:	Cover contact Bus MB256
n+7:	Addressing Bus MB256

Bus2-user: Ident-Key1 + Ident-Key2

1. Input = tamper
4. Input = hold-up key code (only Ident-Key2 keyboard)
   allocation to any detector group
5. Input = bolt switching contact
   allocation to any detector group
6. Input = release contact
   allocation to any detector group
7. Input = housing cover
8. Input = addressing

I/O device- No.	Name	Input states	Function value- No.	Name
n	input 1	IS 0 tamper	0 1 2	off on not present
		IS 1 tamper alarm	0 1	off on
n+1	input 2	not used		
n+2	input 3	not used		
n+3	input 4	IS 0 release	0 1 2	off on not present
		IS 1 alarm	0 1	off on
		IS 2 internal blocking	0 1	off on
		IS 3 external blocking	0 1	off on
		IS 4 message	0 1	no first message first message
n+4	input 5	IS 0 release	0 1 2	off on not present
		IS 1 alarm	0 1	off on
		IS 2 internal blocking	0 1	off on
		IS 3 external blocking	0 1	off on
		IS 4 message	0 1	no first message first message
n+5	input 6	IS 0 release	0 1 2	off on not present
		IS 1 alarm	0 1	off on

		IS 2 internal blocking	0 1	off on
		IS 3 external blocking	0 1	off on
		IS 4 message	0 1	no first message first message
n+6	input 7	IS 0 cover	0 1 2	closed opened not present
		IS 1 alarm cover	0 1	off on
n+7	input 8	IS 0 addressing	0 1 2	ok on trouble not present
		IS 1 alarm address	0 1	off on

Configurations-Text - inputs:

n: see inputs : B_256SAB(xxxxx);
n+4: " : B_256RSK(xxxxx);
n+5: " : B_256OEK(xxxxx);
n+6: " : B_256DEC(xxxxx);
n+7: " : B_256ADR(xxxxx);

I/O-Type:

n tamper Bus 1 MB256
n+3: Hold-up input MB256
n+4: Input Bus MB256
n+5: Input Bus MB256
n+6: Cover contact Bus MB256
n+7: Addressing Bus MB256

12.6 IGIS-LOOP Tableau Inputs

The inputs have the following affiliation:

1. Input = Input 1 (activation module ST2/1)
2. Input = Input 2 „lamp test“ (activation module ST2/2)
3. Input = Input 3 (activation module ST2/3)
4. Input = Input 4 (activation module ST2/4)
5. Input = Input 5 (activation module DIP-switch S1/1)
6. Input = Input 6 (activation module DIP-switch S1/2)
7. Input = Input 7 (activation module DIP-switch S1/3)
8. Input = Input 8 (activation module DIP-switch S1/4)
9. Input = battery failure (IGIS-LOOP Controller E1)
10. Input = mains fault (IGIS-LOOP Controller E2)
11. Input = Input 9 (IGIS-LOOP Controller E3)
12. Input = Input 10 (IGIS-LOOP Controller E4)
13. Input = battery main alarm tableau

13. Ident-Key key switching units 1 - 250

I/O device- No.	Name	Input states	Function value- No.	Name
22001	last key of switching unit 1	IS 0 key (digit 4)	0 to 1	key-No. valence 1000
		IS 1 key (digit 3)	0 to 9	key-No. valence 100
		IS 2 key (digit 2)	0 to 9	key-No. valence 10
		IS 3 key (digit 1)	0 to 9	key-No. valence 1
		IS 4 last action with this key	0	no last action available
			1	zone armed
			2	zone disarmed
			3	zone disarmed + door release
			4	only door release
			5	only switching unit locked
			6	only switching unit unlocked
			7	invalid key
			8	only switching unit locked (intern off)
		O O O O		
22251	last key of switching unit 250	IS 0 key (digit 4)	0 to 1	key-No. valence 1000
		IS 1 key (digit 3)	0 to 9	key-No. valence 100
		IS 2 key (digit 2)	0 to 9	key-No. valence 10
		IS 3 key (digit 1)	0 to 9	key-No. valence 1
		IS 4 last action with this key	1	no last action available
			2	zone armed
			3	zone disarmed
			4	zone disarmed + door release
			5	only door release
			6	only switching unit locked
			7	only switching unit unlocked
			8	invalid key
			9	only switching unit locked (intern off)

I/O type: 22001-22251 Identkey (last action with this key)

(IS 0 - IS 4 is transferred with each action). The client text of the key (if available) is attached to input state 4

(last action with this key). The attached string has the following affiliation:

Name	**Byte-No.**	**valance-zone**
number of strings	1	1
length of strings	2	1-40
string	3 - n (n = 0-39)	ASCII-character of string

14. Programmable IGIS outputs

I/O device-		Input states	Function value-	
No.	Name		No.	Name
27001	output 1	IS 0 output	0 1 2	inactive active not present
27002	output 2	IS 0 output	0 1 2	inactive active not present
		O O O O		
27400	output 400	IS 0 output	0 1 2	inactive active not present

The output functions which may be displayed are programmed in the central unit and placed on the corresponding output.

Configurations-Text:

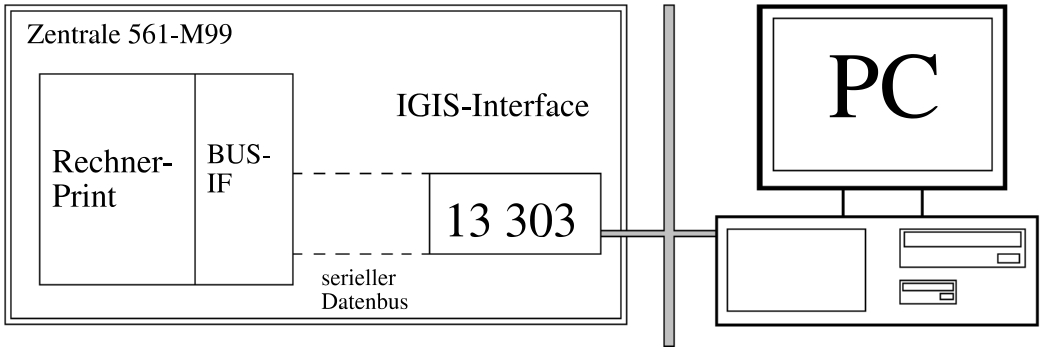
PROG_Offgxxx : PG_Offg (00xxx);

I/O type:

27001-28000 Programmable IGIS-Output MB256

2.8 Connection of the control unit 561-M99 to the IGIS network

1. Basic system configurations



IGIS-LAN

2. Communication via the IGIS network

The description "Connecting IGIS terminals to the IGIS network" contains further information on communication via the IGIS network.

2.1 Access code

The password of the central unit 561-M99 serves as access code for the commands INIT_MP and SET_FILT.

2.2 Tamper message

A tamper message is triggered at the central unit 561-M99 if the following events occur:

> If a wrong access code or wrong password has been transmitted ten times.

> Activation of the tamper contact (input RTM pins on the print)

2.3 Error message

The IGIS-IF-M20 reports an error message to the central unit if the following occurs:

> If the AO switch of the DIL switch is set to ON for setting of the IGIS address, the IGIS-IF-M20 has been initialized and subsequently the connection to destination device has been disconnected.

> 12 V is available at the input N/A.

With systems designed as per VdS directives, no error message may be transmitted to the central unit as this prevents arming. To ensure this, the DIL switch AO must be set to OFF. The input malfunction N/A must be put on 0 V.

1. Tamper state block locks, loudspeaker, flash lamp

I/O device-		Input states	Function value-	
No.	Name		No.	Name
1	tamper of block lock	0 housing	0 1	ok released
	zone 1	1 line	0 1	ok released
2	tamper of block lock	0 housing	0 1	ok released
	zone 2	1 line	0 1	ok released
3	tamper of block lock	0 housing	0 1	ok released
	zone 3	1 line	0 1	ok released
4	tamper of block lock	0 housing	0 1	ok released
	zone 4	1 line	0 1	ok released
5	loudspeaker	0 tamper	0 1	ok released
6	flashing lamp	0 tamper	0 1	ok released

I/O type: 1-4 tamper of block lock M20/M99
5-6 tamper M20/M99

2. Zones

2.1 Armed, disarmed, delete

I/O device-		Input states / Output states	Function value-	
No.	Name		No.	Name
7	armed/US Inform. lock 1	IS 0 condition	O 1 2 3	disarmed disarmedafter alarm internally disarmed externally disarmed
	zone 1 armed/disarmed	OS 0 switch	0	disarmed
			1	armed internally with delay
			2	armed internally
			3	delete
8	armed/US Inform. lock 2	IS 0 condition	0 1 2 3	disarmed disarmed after alarm internally disarmed externally disarmed
	zone 2 armed/disarmed	OS 0 switch	0	disarmed
			1	armed internally with delay
			2	armed internally
			3	delete
		O O O O		
10	armed/US Inform. lock 4	IS 0 condition	0 1 2 3	disarmed disarmed after alarm internally disarmed externally disarmed
	zone 4 armed/disarmed	OS 0 switch	0	disarmed
			1	armed internally with delay
			2	armed internally
			3	delete

I/O type: 7-10 SUS zone M20/M99

2.2 Alarm/trouble zone

I/O device-		Input states	Function value-	
No.	Name		No.	Name
11	alarm / trouble	0 alarm	0 1	off on
	zone 1	1 trouble	0 1	off on
12	alarm / trouble	0 alarm	0 1	off on
	zone 2	1 trouble	0 1	off on
13	alarm / trouble	0 alarm	0 1	off on
	zone 3	1 trouble	0 1	off on
14	alarm / trouble	0 alarm	0 1	off on
	zone 4	1 trouble	0 1	off on

I/O type: 11-14 zone information M20/M99

2.3 Acoustic zone intern/extern

I/O device-		Input states / Output states	Function value-	
No.	Name		No.	Name
15	acoustic zone 1	IS 0 switch operation	0 1	internally externally
		OS 0 switch	0 1	internally externally
16	acoustic zone 2	IS 0 switch operation	0 1	internally externally
		OS 0 switch	0 1	internally externally
17	acoustic zone 3	IS 0 switch operation	0 1	internally externally
		OS 0 switch	0 1	internally externally
18	acoustic zone 4	IS 0 switch operation	0 1	internally externally
		OS 0 switch	0 1	internally externally

I/O type: 15-18 Zone acoustic M20/M99

2.4 Buzzer

I/O device-		Input states	Function value-	
No.	Name		No.	Name
25	buzzer zone 1	OS 0 condition	0 1	off on
26	buzzer zone 2	OS 0 condition	0 1	off on
27	buzzer zone 3	OS 0 condition	0 1	off on
28	buzzer zone 4	OS 0 condition	0 1	off on
2930	reserved for extensions			

I/O type: 25-28 Zone buzzer M20/M99

3. System troubles

I/O device-		Input states	Function value-	
No.	Name		No.	Name
19	Energy trouble	OS 0 battery	0 1	on trouble ok
		OS 0 AC	0 1	on trouble ok
20	processor error	trouble Eprom/RAM	0 1	off on
2124	reserved for supplements			

I/O type: 19 energy supply M20/M99
20 processor error MB100/16/8 M99/M20

4. Groups

I/O device-		Input states / Output states	Function value-	
No.	Name		No.	Name
31 Group 01	detection states	IS 0 condition	0 1	ok released
		IS 1 alarm	0 1	off on
		IS 2 blocking	0 1	off on
		IS 3 zone	0 1 2 3	zone 1 zone 2 zone 3 zone 4
	Output states	OS 0 blocking	0 1	off on
		OS 1 release	0 1	off on
O O O O				
129 Group 99	detection states	IS 0 condition	0 1	ok released
		IS 1 alarm	0 1	off on
		IS 2 blocking	0 1	off on
		IS 3 zone	0 1 2 3	zone 1 zone 2 zone 3 zone 4
	output states	OS 0 blocking	0 1	off on
		OS 1 release	0 1	off on

I/O type: 31-129 Group M99/M20
Group M99/M20 filtered

5. User bus

I/O device-		Input states	Function value-	
No.	Name		No.	Name
130	user bus 1	OS 0 trouble	0 1	off on
		OS 1 tamper	0 1	off on
		OS 2 addressing	0 1	ok released
131	user bus 2	OS 0 trouble	0 1	off on
		OS 1 tamper	0 1	off on
		OS 2 addressing	0 1	ok released
O O O O				
255	user bus 126	OS 0 trouble	0 1	off on
		OS 1 tamper	0 1	off on
		OS 2 addressing	0 1	ok released

I/O type: 130-255 User M20/M99

2.9 I/O device definition for MultiAccess

1. Doors

I/O device- No.	Name/Types ID	Input states / Output states	Function value- No.	Name
1	door 1	IS 0 situation	0	close
			1	open
			2	not present
			3	unknown
		IS 1 mode	0	normal
			1	free
			2	blocked
			3	code
		IS 2 error	0	no error
			1	too long opened
			2	opened without card
			3	time over
		IS 3 card reader inside	0	ok
			1	error
		IS 4 card reader outside	0	ok
			1	error
		IS 5 unblocking	0	-
			1	opening allowed **(*)**
			2	opening not allowed **(*)**
			3	opened with alarm **(*)**
			4	opener inside
			5	opener outside
			6	release by hHost
		IS 6 special code (from V5)	0	-
			1	inside
			...	...
			8	outside
		OS 0 switch	0	normal mode
			1	free
			2	blocked
			3	open (pulse)
		O O O O		
999 (1000 reserved)	door 512	IS 0 situation	0	close
			1	open
			2	not present
			3	unknown
		O O O O		

I/O type: 1-999 Access control door

(*) with appended string

number of strings	here 3	1 Byte
length of string 1		1 Byte
I I first name I I		x Byte
length of string 2		1 Byte
I I name I I		y Byte
length of string 3		1 Byte
I I personnel number I I		z Byte

2. Inputs

I/O device-		Input states / Output states	Function value-	
No.	Name		No.	Name
1001	input 1	IS 0 state	0 1 2 3	closed open not present unknown
1002	input 2	IS 0 state	0 1 2 3	closed open not present unknown
		o o o o		
1999 (2000 reserved)	input 999	IS 0 state	0 1 2 3	closed open not present unknown

I/O type: 1001-1999 Access control input

3. Outputs

I/O device-		Input states / Output states	Function value-	
No.	Name		No.	Name
2001	Output 1	IS 0 state	0 1 2 3	closed open not present unknown
		OS 0 switch	0 1	close open
		o o o o		
2999 (3000 reserved)	Output 999	IS 0 state	0 1 2 3	closed open not present unknown
		OS 0 switch	0 1	close open

I/O type: 2001-2999 Access control output

4. Zones

I/O device- No.	I/O device- Name	Input states / Output states	Function value- No.	Function value- Name
3000	not associated (from V7)	empty		for alteration of persons
		OS 0 log in (from V7)	0	in zone (ID of person must be stated as supplementary text)
3001	zone 1	IS 0 persons	0 1 2 3	empty attendance not present unknown
		IS 2	0 - 9	number of persons (digit 4)
		IS 3	0 - 9	number of persons (digit 3)
		IS 4	0 - 9	number of persons (digit 2)
		IS 5	0 - 9	number of persons (digit 1)
		IS 6	0 1 2	unknown - +
		OS 0 log in (from V7)	0 1	in zone (ID of person must be stated as supplementary text) all of zone (ID of person must be stated as supplementary text1)
		O O O O		
3999	zone 999	IS 0 persons	0 1 2 3	empty attendance not present unknown
		IS 1		
		OS 0 log in	0	in zone

I/O type: 3000, 3001-3999 Access control zone

5. Terminal-visualisation

I/O device-		Input states / Output states	Function value-	
No.	Name		No.	Name
4001 -4999	Terminal 1	IS 0 State	0 1 2	offline online unknown
		IS 1 Communication	0 1	inactive active
		IS 2 remote station	0 1 2	- connected not connected

I/O type: 4001 - 4999 Access terminal

5. Key depository KEMAS

I/O device-		Input states / Output states	Function value-	
No.	Name		No.	Name
5001	key 1	IS 0 key	0 1	inserted missing
		O O O O		
5999	key 99	IS 0	0	inserted

I/O type: 5001-5999 Access key KEMAS

2.10 I/O device definition for Video connection Honeywell Fusion

1. Features

As per: 26.09.2005 Release version
20.07.2005 Initial version
Driver: “Fusiondrv.exe”

The driver downloads sections of its configuration data from the WINMAG database. Therefore in the event of a manual start, the network ID or network name must be defined as a start paramenter in a link.

If the WINMAG database is located on a different computer, the location of the corresponding WINMAG database must be defined via the parameter /DB (database)

Example: c:\WINMAG\Drivers\Fusiondrv.exe /NetID 39000607 /DB e:

Further configuration data can be stored in a file with a name that can include the option /ini (contains IP adresses of the recorder, primary remote managers).

Camera images in the live and recording mode can be displayed via “Fusionview” in WINMAG. The Fusion driver can control the recorder.

Depending on the events, live pictures or recordings can be viewed in different forms on the viewer of subsystems using WINMAG.

Complex tours or object-specific views e.g. several cameras of a selected zone can be displayed simultaneously in WINMAG or on the recorder.

Alarm messages are transmitted from the server to WINMAG. WINMAG can invoke the alarm event recording via a time string transmitted together with the alarm message. As the time string is linked to the alarm message, specific recordings for all pending alarms can be viewed.

Integrate the Fusion object with its I/O points in a Fusion network.
Specific parameters of the allocated recorder can be set in the corresponding dialogue (address, password,...).
The “Video” option is required for operating the driver.

2. Summary of the I/O device lst

I/O-zone	I/O-Type	Type-ID	I/O name	chapter
1-32	Fusion camera control	300400720	camera x	3
101-116	Control command Fusion relay	300400730	relay x	4

3. I/O-Type Fusion camera control

I/O device-		Input states / control function	Function value-		Alarm reason
No.	Name		No.	Name	
1	camera 1	IS 0 video signal	0 1	ok malfunction	130
		IS 1 alarm	0 1	off on ***1)**	134
		IS 2 picture change alarm	0 1	off on ***1)**	134
		OS 0 move	0 1 2 3 4 5 6 7 8 9 10 11 12 13 14	stop tilt up tilt down pan left pan right diagonal up right diagonal up left diagonal down rigt diagonal down left zoom in zoom out focus in focus out iris open iris close	
		OS 1 speed	0 1 2 3 4 5 6 7 8 9 10	0 1 2 5 10 20 50 100 200 255 text parameter	
		OS 2 control	0 1 2	wiper light tour	

		OS 3 preset	0 1 2 3 4 5 6 7 8 9 10	1 2 3 4 5 6 7 8 9 10 text parameter	
		OS 4 set preset	0 1 2 3 4 5 6 7 8 9 10	1 2 3 4 5 6 7 8 9 10 text parameter	
		OS 5 clear preset	0 1 2 3 4 5 6 7 8 9 10	1 2 3 4 5 6 7 8 9 10 text parameter	
		OS 6 recording	0 1 2	off on force intensive	
		OS 7 Viewer distribution	0 1 2 3 4 5 6 7 8 9 10	1 4A 4B 4C 4D 7 9A 9B 10 13 16	
		O O O O			
32	camera32	...			

I/O:1-32 I/O-Type: Fusion camera control ID:300400720

Note:
*1) The alarm message contains a recording date in Text 1 represented as yyyymmddhhmmss e.g. 20030506143205.

4. I/O-Type Control command Fusion Relay

I/O device-		Input states / control function	Function value-		Alarm reason
No.	Name		No.	Name	
101	relay 1	OS 0 control	0 1	off on	
102	relay 2	...			
		o o o o			
116	relay 16	...			

I/O:101-116 I/O-Type: Control command Fusion Relay ID:300400730

2.11 I/O device definition for Visioprime-Remotemanager

1. Features

State: 04.08.2003 1. release
06.05.2003 first version IFSEC
Driver: “Visioprime.exe”

The driver imports part of its configuration data from the WINMAG database, so the network ID or network name should be included in a link as the start parameter.

The position of the corresponding WINMAG database must be further specified through the parameter / DB if the WINMAG database is on another computer.

Example: c:\WINMAG\Drivers\Visioprime.exe /NetID 39000607 /DB e:

Other driver configuration data can be saved in a file whose name can be specified with the option /ini (contains recorder IP addresses, primary RemoteManagers).

Visioprime RemoteManager” is utilised for visualising camera images in live and recording mode. The viewer can control the WINMAG driver on the recorder, the local machine and on other viewers.

Live images or recordings (relative to events) are illustrated in a variety of forms and can be viewed on the viewer in sub-systems logged on to WINMAG.

Complex rounds or specific views in or of buildings (e.g. all cameras simultaneously in a selected zone) can be viewed on the viewer from WINMAG.

Alarm messages are sent from the server to WINMAG. WINMAG can call up the alarm event recording via a time string linked to the alarm message. Recordings of all present alarms can be viewed specifically, as the time string is linked to the alarm message.

The Visioprime building and its I/O points should be integrated in an event network.

The “Video” option is required for operating the driver.

2. Summary of the I/O device list

I/O-zone	I/O-Type	Type-ID	I/O name	chapter
37636	Visioprime camera control	300400520	camera x	3
101-116	Visioprime camera telemetry	300400530	camera x telemetry	4
1000-1001	Visioprime viewer	300400510	viewer /Remote viewer	5

3. I/O device type visioprime camera control

I/O device		Input states / control function	Function value		Alarm reason
No.	Name		No.	Name	
1	camera 1	IS 0 video signal	0 1	ok disconnected	130
		IS 1 alarm	0 1	off on ***1)**	131
		IS 2 video motion detection	0 1	no yes ***1)**	131
		OS 0 on viewer	0 1 ... 15	1 2 .. 16	
		OS 1 alarm	0	set	
		OS 2 alarm acknowledge	0	set	
		OS 3 ***2)** on remote viewer	0 1 ... 15	1 2 .. 16	
2	camera 2	...			
O O O O					
16	camera16	...			

No: 1-16 I/O type: Visioprime camera control ID:300400520

Please note:

*1) The alarm message contains the recording time in Text 1 in the form yyyymmddhhmmss (e.g. 20030506143205).

*2) The IP address of the viewer should be specified in Text parameter 2 if the camera is logged onto a non-configured viewer.

4. I/O device type visioprime camera telemetry

I/O device		Input states / control function	Function value		Alarm reason
No.	Name		No.	Name	
Nr.	Name		Nr.	Name	
101	camera 1 telemetry	OS 0 fixed position	0 1 2 3	Position 1 Position 2 Position 3 Position 4	
		OS 1 speed	0 1 2 3	* 1 * 2 * 3 * 4	
		OS 2 pan	0 1 2 3	stop pan right left automatic	
		OS 3 tilt	0 1 2	stop up down	
		OS 4 zoom	0 1 2	stop in out	
		OS 5 focus	0 1 2	stop near far	
102	camera 2 telemetry	...			
O O O O					
116	camera16 telemetry	...			

I/O:101-116 I/O type: Visioprime camera telemetry ID:300400530

Note: Functions have not yet been checked, due to a shortage of test hardware !

5. I/O device type visioprime viewer

I/O device		Input states / control function	Function value		Alarm reason
No.	Name		No.	Name	
Nr.	Name		Nr.	Name	
1000	Viewer	IS 0 state	0 1 2	not present ok fault	130
		OS 0 display mode	0 1 2 3	minimized maximized full	
		OS 1 viewer split	0 1 2 3 4 5	1 2 3 4 5 6	
		OS 2 mode	0 1	live playback)	
		OS 3 event	0 1 2	start *1) next previous	
		OS 4 play	0 1 2 3 4 5	reverse play reverse frame forward frame play forward fast forward stop fast motion	
		OS 5 playback speed	0 1 2 3	normal * 2 * 4 * 8	
1001	Remote Viewer	IS 0 state	0 1 2	not present ok fault	130
		OS 0 *2) display mode	0 1 2 3	minimized maximized full	

		OS 1 *2) viewer split	0 1 2 3 4 5	1 2 3 4 5 6	
		OS 2 *2) mode	0 1	live playback)	
		OS 3 *2) event	0 1 2	start *1) next previous	
		OS 4 *2) play	0 1 2 3 4 5	reverse play reverse frame forward frame play forward fast forward stop fast motion	
		OS 5 *2) playback speed	0 1 2 3	normal * 2 * 4 * 8	

I/O: 1000-1001 I/O type: visioprime viewer ID:300400510

*1) The time string should also be specified as a string in Text 1 on the control command ”start”. For example:
<<<put “visioprime”::”viewer 1":”viewer”.”event”=”start”,”20030506143205" >>>

*2) Control commands issued to a selected RemoteViewer contain the IP address of the viewer in the additional Text 2. So it is possible to actuate not only the viewer indicated in the driver but also other viewers.

2.12 I/O device def. for Video connection Honeywell MaxPro, Ernitec, Phillips

1. I/O device-type Camera Honeywell MaxPro, Ernitec, Phillips

I/O device- No.	Name	Input states / Output states	Function value- No.	Name	Alarm reason
1 *1)	camera 1	IS 0 state	0	ok	---
			1	malfunction	Video-trouble 130
			2	not present	---
		IS 1	0 - 9	monitor (digit 2)	
		IS 2	0 - 9	monitor (digit 1)	
		OS 0 on monitor	0	without allocation	
			1	monitor 1	
			2	monitor 2	
				...	
			15	monitor 15	
		OS 1 on monitor >15	0	monitor 16	
			1	monitor 17	
			(n)	(n+16)	
			15	monitor 31	
		OS 2 fixed position	0	off	
			1	position 1	
			2	position 2	
				...	
			9	position 9	
		OS 3 pan	0	stop (all) (!)	
			1	stop (pan) (t)	
			2	right (c)	
			3	left (d)	
		OS 4 tilt	0	stop (y)	
			1	up (j)	
			2	down k)	
		OS 5 zoom	0	stop (O)	
			1	in (g)	
			2	out (h)	
		OS 6 focus	0	stop (q)	
			1	near (a)	
			2	far (b)	
		O O O O			
999	camera 999	IS 0 state	0	ok	---
			1	malfunction	Video-trouble 130
			2	not present	---
		O O O O			
11000 *2)	camera 1000	IS 0 state	0	ok	---
			1	malfunction	Video-trouble 130
			2	not present	---
		O O O O			
19999 *2)	camera 9999	IS 0 state	0	ok	---
			1	malfunction	Video-trouble 130
			2	not present	---

*1) With VServer from 2.05 you can use up to 9999 cameras. The cameras 1 - 999 are offered at the same time with the I/O points 10001 to 10999.

*2) The cameras 1000 to 9999 only can be used only together with Ernitec-drivers from Version P03.00 and VServer from 2.05.

I/O-Type:

1	-	999	Camera Videomatrix Ernitec
1	-	999	Camera Videomatrix Honeywell MaxPro
11000	-19999		Camera Videomatrix Ernitec

2.1 I/O device-type Monitor Honeywell MaxPro, Phillips

I/O device- No.	Name	Input states / Output states	Function value- No.	Name	Alarm reason
1001	monitor/ sequence 1	IS 2 camera (digit 4)	0 1 2 ... 9 10	unknown 1xxx 2xxx ... 9xxx 0xxx	
		IS 3 camera (digit 3)	0 1 2 ... 9 10	unknown 1xx 2xx ... 9xx 0xx	
		IS 4 camera (digit 2)	0 1 2 ... 9 10	unknown 1x 2x ... 9x 0x	
		IS 5 camera (digit 1)	0 1 2 ... 9 10	unknown 1 2 ... 9 0	
		OS 0 switch	0 1 2 3	start stop pause go on	
		OS 1 sequences 1	0 1 2 15	sequence 1 sequence 2 sequence 3 ... sequence 16	
		OS 2 sequences 2	0 1 (n) 14 15	sequence 17 sequence 18 sequence (n+17) sequence 31 sequence 32	
		OS 3 change camera	0 1	up down	
		O O O O			
1099	monitor/ sequence 99	IS 3 camera	0 1 2	camera (digit 3) camera (digit 2) camera (digit 1)	
		...	...	...	
		OS 3 change camera	0 1	up down	

I/O type: 1001-1099 Monitor-sequence Honeywell MaxPro

2.2 I/O device-typ Monitor Ernitec

I/O device-		Input states / Output states	Function value-		Alarm reason
No.	Name		No.	Name	
1001	monitor/ sequence 1	IS 0 camera	0 1 2	camera (digit 3) camera (digit 2) camera (digit 1)	
		OS 0 switch	0	pause / go on	
		OS 1 sequence	0 1 2 ... 7	1 2 3 ... 8	
		OS 2 reserved			
		OS 3 change camera	0	next	
O O O O					
1099	monitor/ sequence 99	IS 0 camera	0 1 2	camera (digit 3) camera (digit 2) camera (digit 1))	
		...	...	...	
		OS 3 change camera	0	next	

I/O type: 1001-1099 Monitor-sequence videomatrix Ernitec

3. Video-Alarms

3.1 I/O-type reset alarm videomatrix Honeywell MaxPro

I/O device-		Input states / Output states	Function value-		Alarm reason
No.	Name		No.	Name	
2000	reset alarm	IS 1 switch	0 1	reset delete all alarms	

I/O-Type: 2000 reset alarm videomatrix Honeywell MaxPro (300400101)

3.2 I/O-type reset alarm videomatrix Ernitec

I/O device-		Input states / Output states	Function value-		Alarm reason
No.	Name		No.	Name	
2000	reset alarm	IS 1 switch	0	reset	

I/O type: 2000 reset alarm videomatrix Ernitec (300400111)

3.3 I/O-type alarm input videomatrix Honeywell MaxPro

I/O device-		Input states / Output states	Function value-		Alarm reason
No.	Name		No.	Name	
2001	Video-Alarm 1	OS 0 Alarm	0 1	off on	131
		OS 1 switch	0 1	disarmed armed	
		IS 1 switch	0 1	disarmed armed	
		0 0 0 0			
2512	Video-Alarm 512	0S 0 Alarm	0 1	off on	131
		OS 1 switch	0 1	disarmed armed	
		IS 1 switch	0 1	disarmed armed	

I/O type: 2001-2512 alarm input Videomatrix Honeywell MaxPro (300400100)

3.4 I/O-type alarm input videomatrix Ernitec

I/O device-		Input states / Output states	Function value-		Alarm reason
No.	Name		No.	Name	
2001	Video-alarm1	IS 0 alarm	0 1	off on	131
		IS 0 switch	0 1 2	alarm off alarm on delete alarm	
		O O O O			
2512	Video-alarm 512	OS 0 alarm	0 1	off on	131
		IS 0 switch	0 1 2	alarm off alarm on delete alarm	

I/O type: 2001-2512 alarm input videomatrix Ernitec (300400110)

2.13 I/O device definition for video connection Vicrosoft

1. I/O device-type camera Geutebrück

I/O device-		Input states / Output states	Function value-		Alarm reason
No.	Name		No.	Name	
1	camera 1	IS 0 state	0	-	---
		OS 0 on monitor	0 1 2 15	without allocation monitor 1 monitor 2 ... monitor 15	
		OS 1 on monitor >15	0 1 (n) 15	monitor 16 monitor 17 (n+16) monitor 31	
		OS 2 fixed position	0 1 2 ... 9 10	off position 1 position 2 ... position 9 basic position	
		OS 3 pan	0 1 2 3	stop right left automatic	
		OS 4 tilt	0 1 2	stop up down	
		OS 5 zoom	0 1 2	stop in out	
		OS 6 focus	0 1 2	stop near far	
		OS 7 switch	0 1 2 3 4 5 6 7 8 9 10 11 12 13	normal mode fast mode function F0 off function F0 on function F1 off function F1 on illumination off illumination on camera off camera on wiper off wiper on pump off pump on	

			O O O O		
255	camera 255	IS 0 state	0	-	-

I/O type: 1-999 Geutebrück camera videocontrol

2. I/O device-type monitor Geutebrück Vicrosoft

I/O device-		Input states / Output states	Function value-		Alarm reason
No.	Name		No.	Name	
1001	monitor 1	IS 0 state	0 1 2 3	not present manual alarm cycle	
		IS 1 camera	0 1 2	0xx 1xx 2xx	
		IS 2 camera digit 2	0 1 2 3 4 5 6 7 8 9	0x 1x 2x 3x 4x 5x 6x 7x 8x 9x	
		IS 3 camera digit 1	0 1 2 3 4 5 6 7 8 9	0x 1x 2x 3x 4x 5x 6x 7x 8x 9x	
		OS 0 switch	0 1 2	sequence stop sequence start no camera switch on	
			O O O O		
1099	monitor 99	IS 0 state	0 1 2 3	not present manual alarm cycle	
		...	...	...	
		OS 0 switch	0 1 2	sequence stop sequence start no camera switch on	

I/O type: 1001-1099 monitor videomatrix

3. I/O device-type monitorgruppe Geutebrück Vicrosoft

I/O device-		Input states / Output states	Function value-		Alarm reason
No.	Name		No.	Name	
1101	monitor group 1	IS 0 state	0	-	
		OS 0 switch	0 1 2	alarm confirmed alarm acknowledged acknowledge all alarms of the group	
		O O O O			
1130	monitor group 30	IS 0 state	0	-	
			switch	alarm confirmed alarm acknowledged acknowledge all alarms of the group	

I/O type: 1101-1130 Geutebrück Vicrosoft monitor group

4. I/O device-type

4.1 Videosensor VS30

I/O device- No.	Name	Input states / Output states	Function value- No.	Name	Alarm reason
1201	video-sensor 1	IS 0 sensor	0 1 2 3 4	out of use in use var. 1 in use var. 2 in use var. 3 in use var. 4	
		IS 1 state	0 1	armed disarmed	
		IS 2 picture	0 1	ok signal-error	
		IS 3 alarm 1	0 1 2	off on external	
		OS 0 variant	0 1 2 3 4 5	extern 1 2 3 4 next	
		OS 1 switch	0 1 2 3 4 5	disarmed armed external disarmed switch on picture single output auto single output light	
O O O O					
1398	video-sensor 198	...	...	...	
		OS 1 switch	0 1 2 3 4 5	disarmed armed external disarmed switch on picture single output auto single output light	

I/O type: 1201 - 1398 Geutebrück Vicrosoft videosensor VS30

In state 3 alarm FW 1 Alarm the supplement text may contain more information.
Text1: fieldnumber (99)

4.2 Videosensor VS40

I/O device- No.	I/O device- Name	Input states / Output states	Function value- No.	Function value- Name	Alarm reason
1501	video-sensor 1	IS 0 sensor	0 1	ok out of order	
		IS 1 state	0 1	armed disarmed	
		IS 2 picture	0 1 2	ok error synchronisation-error	
		IS 3 alarm 1	0 1 2	off on external	
		IS 4 aarm 2	0 1 2	off on external	
		IS 5 alarm 3	0 1 2	off on external	
		IS 6 aarm 4	0 1 2	off on external	
		OS 0 switch	0 1 2	disarmed armed test alarm	
O O O O					
1999	video-sensor 499	...	...	...	
		OS 0 switch	0 1 2	disarmed armed test alarm	

I/O type: 1501 - 1999 Geutebrück Vicrosoft videosensor VS40

In state 3 to 6 alarm FW 1 Alarm the supplement text may contain more information.

Text1: fieldnumber (99)

5. I/O device-type programming module

5.1 Videosensor VS30

I/O device-		Input states / Output states	Function value-		Alarm reason
No.	Name		No.	Name	
1401	programming module 1	IS 0 setting	0 1	blocked released	
		OS 0 variant	0 1 2 3 4 5	extern 1 2 3 4 next	
		OS 1 switch	0 1 2 3 4 5	disarmed armed external disarmed switch on picture sample output auto sample output light	
		O O	**O**	**O**	
1403	all programming modules	...	...	...	
		OS 1 switch	0 1 2 3 4 5	disarmed armed external disarmed switch on picture sample output auto sample output light	

I/O type: 1401 Sample point for programming module 1
1402 Sample point for programming module 2
1403 Sample point for all programming modules

5.2 Videosensor VS40

I/O device-		Input states / Output states	Function value-		Alarm reason
No.	Name		No.	Name	
1500	programming module	IS 0 mode	0 1 2 3 4 5	working mode variant 1 variant 2 variant 3 variant 4 setup mode	
		OS 0 variant	0 1 2 3	1234	
		OS 1 switch	0 1 2 3	disarmed armed sample output sample output auto sample output light	

I/O type: 1500 Sample point for programming module

6. I/O device-Type control activity Geutebrück

I/O device-		Input states / Output states	Function value-		Alarm reason
No.	Name		No.	Name	
2001	control activity 1	IS 0	0	-	
		OS 0 switch	0 1 2	release activate deactivate	
		O O O O			
1099	control activity 9999	IS 0	0	-	
		OS 0 switch	0 1 2	release activate deactivate	

I/O type: 2001-11099 control activity
no read in of inputs of the control processor (reset missing)

7. Video alarms

I/O device-		Input states / Output states	Function value-		Alarm reason
No.	Name		No.	Name	
12001	video alarm 1	IS 0	0	-	
		OS 0 switch	0	on	
		O O O O			
12999	video alarm 999	IS 0	0	-	
		OS 0 switch	0	on	

I/O type: 12001-12999 Geutebrück Vicrosoft video alarm

2.14 I/O device definition for Geutebrück Multiscope-connection

The Multiscope II Server is actuated by the driver “MultiscopeIIrv.exe”. The driver needs the current version of the file Geutebrück-DLL MSCDBI in the path or in the calling directory.
The net-ID or the net name is the starting parameter.

Example: WINMAG\Drivers\MultiscopeIIDrv.exe /NetID 39000606

The Multiscope-object must be integrated into a event net.

1. I/O device type Geutebrück Event

I/O device-		Input states / Output states	Function value-		Alarm reason
No.	Name		No.	Name	
1	event 1	IS 0 event	0 1	off on *2)	134
		OS 0 switch	0 1 2 3 4 5 6 7	start stop pulse pulse 1 second pulse 2 seconds pulse 5 seconds pulse 30 seconds pulse 60 seconds	
O O O O					
19999	event 19999	IS 0 event	0	...	...

I/O type: 1-19999 Geutebrück Event 300400500

*1) The I/O devices of a Multiscope II-connection must be imported via a list of I/O devices, which is created by the driver. Before starting the driver you need a network in WINMAG for configuring the calling link of the driver.

*2) The number of the event is attached as a text parameter to the input ”Event”=”ein”. It can be inquired via the variable mp_text1.

2.15 I/O device definition for Geutebrück Multiview-connection

The recorder of a local “Geutebrück Multiview" is actuated by the driver “MultiviewDrv.exe”.
The linked net-ID or the net name is the starting parameter.

Example: c:\WINMAG\Drivers\MultiviewDrv.exe /NetID 39000605

The Multiview-object must be integrated into a event net.

1. I/O device type Geutebrück camera Telemetry

I/O device-		Input states / Output states	Function value-		Alarm reason
No.	Name		No.	Name	
1	camera 1 telemetry	IS 0	0		
		OS 0 go to position	0 1 2 15	home (off) 1 2 ... 15	
		OS1 mode	0 1	slow fast	
		OS 2 pan	0 1 2 3	stop pan right left automatic	
		OS 3 tilt	0 1 2	stop up down	
		OS4 zoom	0 1 2	stop in out	
		OS 5 focus	0 1 2	stop near far	
		OS 6 iris	0 1 2	stop open close	
		OS 7 extra	0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	cleaning on cleaning off pump on pump off function x on function x off function y on function y off function u on function u off function v on function v off lights on lights off camera on camera off	

3	camera 2 telemetry	...			
		O O O O			
997	camera 499 telemetry	...			

I/O device type: 1, 3, 5 -997 Geutebrück camera telemetry 300400430

2. I/O device type Geutebrück camera control

I/O device-		Input states /	Function value-		alarm reason
No.	Name	Output states	No.	Name	
2	camera 1	IS 0	0		
	connection	OS0 on viewer 1-16	0 1 2 ... 15	1 2 3 .. 16	
		OS 1 on viewer 17-32	0 1 2 ... 15	17 18 19 .. 32	
		OS 2 on viewer 33-36	0 1 2 3	33 34 35 36	
		OS 3 on monitor	0 1 2 ... 15	1 2 3 ... 16	
		OS 4 on monitor 17-32	0 1 2 ... 15	17 18 19 ... 32	
4	camera 2 connection	...			
		O O O O			
998	camera 499 connection	...			

I/O device type: 2, 4, 6 -998 Geutebrück Camera Control 300400440

3. I/O device type Geutebrück Monitor Multiscope

I/O device- No.	I/O device- Name	Input states / Output states	Function value- No.	Function value- Name	alarm reason
1001	monitor 1	IS 0			
		OS 0 connection	0	delete	
		OS 1 loop	0 1	start stop	
		OS 2 series 1	0 1 2 3 ... 15	standard sequence sequence 1 sequence 2 sequence 3 ... sequence 15	
		OS 3 series 2	0 1 2 3 ... 15	sequence 16 sequence 17 sequence 18 sequence 19 ... sequence 31	
		o o o o			
1099	monitor 99	MIS 0			
		...	...	...	
		OS 3 series 2	0 ... 15	sequence 16 ... sequence 31	

I/O device type: 1001-1099 Geutebrück Monitor Multiscope 300400420

4. I/O device type Geutebrück Viewer 1*1 - 6*6

I/O device- No.	Name	Input states / Output states	Function value- No.	Name	alarm reason
1101	Viewer 1	IS 0			
		OS 0 connection	0	delete	
		OS 1 event	0 1 2 3	next previous last first	
		OS 2 zoom	0 1	in out	
		OS 3 mode	0 1 2 3 4 5 6 7 8 9	one forward forward fast forward rewind one rewind fast rewind stop live picture first picture last picture	
		O O O O			
1136	Viewer 36	IS 0			
		OS 3 mode	0 ... 9	one forward ... last picture	

I/O device type: 1101-1136 Geutebrück Viewer 1*1 - 6*6 300400410

5. I/O device type Multiview user interface

I/O device- No.	I/O device- Name	Input states / Output states	Function value- No.	Function value- Name	alarm reason
2000	Multiview interface	IS 0 state	0 1 2	not present ok on trouble	130
		OS 0 display state	0 1 2 3	minimized normal maximized full	
		OS 1 Viewer partitioning	0 1 2 3 4 5	1 ***1** 2 ***2** 3 ***3** 4 ***4** 5 ***5** 6 ***6**	
		OS 2 strain	0 1	on off	
		OS 3 ***1)** event	0 1 2	ack start loop	

I/O device type: 2000 Geutebrück Multiview 300400400

***1)** The event number can be attached as a string to the control command ”Event”. In the Multiscope connection the event number is transmitted as the I/O device "text1".

Example:

<<<put “MV-Netz”::”Multiview1":”Multiview Oberfläche”.”Event”=”starten”,”423" >>>

2.16 I/O definition for Dallmeier-PView-connection

As per: 22.05.2003 Second version

A local “Dallmeier PView” and “Dallmeier PGuard” are actuated via the driver “PViewDrv.exe”.
The network ID or network name are included in a link as start parameters.
Example: c:\WINMAG\Drivers\PViewDrv.exe /NetID 39000606

PView is actuated in the live and recording mode by the driver for visualizing camera images.
PGuard transmits alarm messages to the driver.

If a PView cannot be identified when the driver is activated, the driver is deactivated again. This is also the case when a PView is identified with a version number lower than 5.4.3.

Integrate the Dallmeier-PView object with its I/O points in an event network.
Import the list of I/O points from the PView driver (ID1 and ID2 activated).
The list must be created manually in the driver.

The “Video” option is required for operating the driver.

1. Summary of the I/O device list

I/O-zone	I/O-Type	Type-ID	I/O name	chapter
1	Dallmeier Viewer	300400600	PView	2
2	Dallmeier PGuard	300400610	PGuard	3
10 - 41	Dallmeier Split	300400640	Split	4
101-1000	Dallmeier Recorder	300400620	recorder x	5
1001 - 32000	Dallmeier camera	300400630	camera x+recorder y	6

2. I/O device type Dallmeier Viewer

I/O device-		Input states / Output states	Function value-		alarm reason
No.	Name		No.	Name	
1	Viewer	IS 0 state	0 1 2	not present ok fault	. . 130
		OS 0 Modus	0 1	foreground background	
		OS 1 Viewer distribution	0 1 2 3 4 5 6 7 8 9	1 1+3 1+5 4 1+12 2+12 2+18 1+1 9 32	
		OS 2 ***1)*** Preset	0	control	

I/O:1 I/O-Type: Dallmeier viewer ID:300400600

*1) The preset name must be added as a string in text 1 to the control command “Preset”.
Example:
<<<put ”Dallmeier”::”Pview":”Viewer”.”Preset”=”steuern”,”Preset 4" >>>

3. I/O devive type Dallmeier PGuard

I/O device-		Input states / Output states	Function value-		alarm reason
No.	Name		No.	Name	
2	PGuard	IS 0 state	0 1 2	not present ok fault	. . 130

I/O:2 I/O-Type: Dallmeier PGuard ID:300400610

4. I/O device type Dallmeier Split

I/O device- No.	Name	Input states / Output states	Function value- No.	Name	alarm reason
10	Split 1	OS 0 control	0 1 2 3 4 5 6 7	split connection active record in shoot track record in mirror track display shoot track display mirror track virtual round ***1)** select track ***2)**	
		OS 1 replay ***3)**	0 1 2 3 4 5 6 7 8 9 10	stop track start track end fast rewind fast forward backwards forwards picture back picture ahead index back index ahead	
		OS 2 pan ***3)**	0 1 2 3	stop panning right left automatic	
		OS 3 tilt ***3)**	0 1 2	stop up down	
		OS 4 zoom ***3)**	0 1 2	stop in out	
		OS 5 focus ***3)**	0 1 2	stop near far	
		OS 6 Iris ***3)**	0 1 2	stop open close	
11	Split 2	...			
		O O O O			
41	Split 32	...			

I/O:10 - 41 I/O Type: Dallmeier Split ID:300400640

*1) For virtual tours, the name of the tour must be defined in Text 1.

*2) For the correct type of control, the recorder name must be defined in Text 1 and the corresponding track name in Text 2. Example:
<<<put “Dallmeier”::”PView":”Split1”.”steuern”=”virtueller Rundgang”, “DMS_Name", “TRACK Name” >>>

*3) These commands affect the selected cameras or tracks in the respective split.

5. I/O device type Dallmeier Recorder

I/O device-		Input states / Output states	Function value-		alarm reason
No.	Name		No.	Name	
1001	camera 1 recorder 1	IS 0 state	0 1 2	not present ok fault	. . 130
		IS 1 alarm	0 1	off on ***1)**	131
		OS 0 fixed position	0 1 2 ... 15	0 1 2 ... 15 ***2)**	
		OS 1 actuate	0 1 2	live ***2)** recording ***3)** confirm alarm ***4)**	
		OS 2 pan ***2)**	0 1 2	stop right left	
		OS 3 tilt***2)**	0 1 2	stop on down	
		OS 4 zoom ***2)**	0 1 2	stop in out	
		OS 5 focus ***2)**	0 1 2	stop near far	
		OS 6 iris ***2)**	0 1 2	stop open close	
		OS 7 function	0 1 2 3	PA PB PC ALT	
1002	camera 2 recorder 1	...			

I/O:101-1000 I/O-Type: Dallmeier Recorder ID:300400620

Note:

After importing the I/O point structure from the driver, the recorder number is defined in ID1 and the value 0 in ID2. The driver files the import file in the current driver directory as

Pview_Treibereventadresse_WINMAGeventadresse.txt

Example: PView_150_130.txt

6. I/O device type Dallmeier Camera

I/O device-		Input states /	Function value-		alarm reason
No.	Name	Output states	No.	Name	
1001	Camera 1 Recorder 1	IS 0 State	0 1 2	not present ok fault	. . 130
		IS 1 Alarm	0 1	off on ***1)**	. 131
		OS 0 fixed position	0 1 2 ... 15	0 1 2 ... 15 ***2)**	
		OS 1 actuate	0 1 2	live ***2)** recording ***3)** confirm alarm ***4)**	
		OS 2 pan ***2)**	0 1 2	stop right left	
		OS 3 tilt ***2)**	0 1 2	stop on down	
		OS 4 zoom ***2)**	0 1 2	stop in out	
		OS 5 focus ***2)**	0 1 2	stop near far	
		OS 6 Iris ***2)**	0 1 2	stop open close	
		OS 7 function	0 1 2 3	PA PB PC ALT	
1002	camera 2 recorder 1	...			
		O O O O			
32000	camera x recorder y	...			

I/O:1001-32000 I/O-Type: Dallmeier Camera ID:300400630

Note:
After importing the I/O point structure from the driver, the recorder number is defined in ID1 and the value 0 in ID2. The driver files the import file in the current driver directory as
Pview_Treibereventadresse_WINMAGeventadresse.txt
Example: PView_150_130.txt

*1) The alarm message contains the track name in Text 1 and the time string of the corresponding recording in Text 2

*2) The number of the split that will be used can be defined in Text 1 as an optional parameter.
Example:
<<<put “Dallmeier“::“PView":“Kamera 2 Recorder 3“.“schalten“=„live“,“1"
{ auf Split 1}>>>

*3) The control command „Recording“ must include the track name in Text 1 and the time string in Text 2 that were received in the alarm message to represent an alarm recording.
The number of the split that will be used can be defined in Text 3 as an optional third parameter.

Example:
<<<put “Dallmeier“::“PView":“Kamera 2 Recorder 3“.“schalten“=„Aufzeichnung“,
„Trackname",“xZeitstringxA >>>
or
<<<put „Dallmeier“::“PView":“Kamera 2 Recorder 3“.“schalten“=„Aufzeichnung“,
„Trackname",“xZeitstringxA,“1" { auf Split 1}>>>

If a recording of the camera is required, the time entry in Text 2 is not required.

*4) The control command „Confirm alarm“ must contain the time string in Text 1, that was received in the alarm message.

Example:
<<<put “Dallmeier“::“PView":“Kamera 2 Recorder 3“.“schalten“=„Alarm bestätigen“,
„xZeitstringx“ >>>

2.17 I/O device definition for rescue routes

1. TÖ Bus-Controller 925

I/O device-		Input states / Output states	Function value-	
No.	Name		No.	Name
1	BUS-Controller	IS 0 state	0 1	no connection ok
		IS 1 clock	0 1	off on
		IS 2 complete blocking	0 1	off on
		IS 3 fire detection system	0 1	off on
		IS 4 malfunction	0 1	off malfunction
		IS 5 detector	0 1 2 3	off malfunction alarm malfunction and alarm
		OS 0 clock	0 1	off on
		OS 1 complete blocking	0 1	off on
		OS 2 fire detection system	0 1	off on
		OS 3 detector	0	off
		OS 4 reference	0	start

I/O-Type: 1 TÖ BUS-Controller 925

2. TÖ malfunction

I/O device- No.	I/O device- Name	Input states / Output states	Function value- No.	Function value- Name
2	malfunction	IS 0 BCM-malfunction 1	0 1	- bus short circuit
		IS 1 BCM-malfunction 2	0 1	- TS-Bus malfunction
		IS 2 BCM-malfunction 3	0 1	- address error
		IS 3 BCM-malfunction 4	0 1	- BCM-malfunction
		IS 4 BCM-malfunction 5	0 1	- address error
		IS 5 BCM-malfunction 6	0 1	- member unknown
		IS 6 BCM-malfunction 7	0 1	- reference must be restarted
		IS 7 BCM-malfunction 8	0 1	- address

I/O type: 2 TÖ malfunction

3. TÖ reference malfunction

I/O device- No.	I/O device- Name	Input states / Output states	Function value- No.	Function value- Name
3	reference malfunction	IS 0 software		ok changed
		IS 1 ID	0 1	ok changed
		IS 2 member addresses	0 1 2 3	ok new number new address new number and address
		IS 3 Parallel tableau	0 1 2 3	ok new on the bus new door parameters new address and parameters

I/O type: 3 TÖ reference malfunction

4. TÖ emergency exit control

I/O device-		Input states / Output states	Function value-	
No.	Name		No.	Name
101	emergency exit 1	IS 0 state	0 1 2 3 4 5	not existing offline door open door closed door open, service door closed, service
		IS 1 locking	0 1 2 3 4 5 6 7 8 9 10	undefined released released (short time) locked alarm, unlocked alarm, locked unlocked and alarm reason accu, continuous released accu, temporary released accumulator, locked accumulator, unlocked and alarm reason
		IS 2 entries	0 1 2 3	inactive Bus-time switch door locked Bus-time switch + door locked
		IS 3 alarm	0 1 2 3	no locked message missing central release locked message missing + central release
		IS 4 alarm 2 (tamper)	0 1	- tamper
		IS 5 alarm 3 (emergency off)	0 1 2 3	- door terminal central door terminal and central
		IS 6 alarm 4 (fire detector)	0 1 2 3 4 5 6 7	inactive detector loop external detector loop and external Bus-BMA detector loop + Bus-FDC external and Bus-FDC detector loop + external and Bus-FDC
		IS 7 alarm 5 (release time)	0 1	not exceeded exceeded
		OS 0 switch	0 1 2 3	continuous unlocking temporary release locked delete alarm on control terminal
O O O O				

220	emergency exit 120	IS 0 state	0 1 2 3 4 5	not existing offline door open door closed door open, service door closed, service
		IS 1 locking	...	...

I/O type: 101-220 TÖ emergency exit control

5. TÖ parallel tableau

I/O device-		Input states / Output states	Function value-	
No.	Name		No.	Name
1001	parallel tableau 1	IS 0 state	0 1 2	not existing offline ok
		IS 1 timer switch	0 1	off on
		IS 2 complete blocking	0 1	off on
		IS 3 fire detection system	0 1	off on
O O O O				
1120	parallel tableau 120	IS 0 state	0 1 2	not existing offline ok
		IS 1 timer switch	0 1	off on
		IS 2 complete blocking	0 1	off on
		IS 3 fire detection system	0 1	off on

I/O type: 1001-1120 TÖ parallel tableau

2.18 I/O device definition Esser 5008 Essernet

I/O devices central unit

I/O device-		Input states/ Output states	Function value-	
No.	Name		No.	Name
1	panel state	IS 0 tamper	0 1 2	not present ok releases
		IS 1 remote programming	0 1	off active
		IS 2 test channel	0 1	ok malfunction
		IS 3 memory module	1	ok malfunction
		IS 4 customer data	0 1	ok error
		IS 5 revision PC	0 1 3	not active active necessary
		IS 6 installer mode	0 1	not active active
		IS 7 autodialer malfunction	0 1	ok malfunction
		OS 0 remote programming	0 1	switch off switch on
		OS 1 buzzer	0	off
		OS 3 functional test	0 1	off on

I/O-Type: Panel state 5008 Essernet 300500851

Power supply

I/O device-		Input states	Function value-	
No.	Name		No.	Name
2	power supply 1	IS 0 AC fault	0 1	ok on trouble
		IS 1 battery fault	0 1	off on
		IS 2 ground fault	0 1	off on
		IS 3 emergency lock	0 1	off on
		IS 4 ext. voltage fault	0 1	off on
		IS 5 ext. device fault	0 1	off on
		OS 0 emergency locking	0	on
		O O O		
50	power supply 49	...	...	...
		OS 0 emergency locking	0	on

I/O-type: Power supply 5008 ESSERNET 300500852

Micro modules

I/O device-		Input states	Function value-	
No.	Name		No.	Name
52	micro module 1	IS 0 ground fault	0 1	off on
		O O O O		
58	micro module 7	IS 0 ground fault	0 1	off on

I/O-Type: Micromodul 5008 ESSERNET 300500853

Remote panel

I/O device-		Input states	Function value-	
No.	Name		No.	Name
62	remote panel 1	IS 0 tamper	0 1 2	not present off on
		IS 1 communication fault	0 1	off on
		IS 2 cover contact	0 1	close open
		IS 3 emergency lock	0 1	off on
		OS 0 emergency lock	0	on
		O O O O		
92	remote panel 31	...	...	...
		OS 0 emergency lock	0	on

I/O type: Remote panel 5008 300500854

Printer

I/O device-		Input states	Function value-	
No.	Name		No.	Name
100	printer	IS 0 state	0 1	off on
		IS 1 paper warning	0 1	off on
		OS 0 switch	0 1	off on

I/O type: Printer 5008 300500855

Loop card

I/O device-		Input states	Function value-	
No.	Name		No.	Name
110	loop card 1	IS 0 card failure	0 1 2 3	not present card ok card failure communication fault
		IS 1 loop rupture/ short circuit	0 1	loop ok loop failure
		O O O O		
124	loop card 15	IS 0 loop rupture/ short circuit	0 1	loop ok loop failure

Currently only the loop cards 1 to 6 are available.

I/O type: Loop card 5008 ESSERNET 300500856

Coupler modules

I/O device-		Input states	Function value-	
No.	Name		No.	Name
130	coupler module 1	IS 0 tamper	0 1 2	not present off on
		IS 1 communication fault coupler	1	off on
		IS 2 group fault	0 1	off on
		IS 3 short circuit	0 1	off on
		IS 4 fault UB extern	0 1	off on
		IS 5 fault EEprom	0 1	off on
		IS 6 costumer data defective	0 1	off on
		IS 7 emergency locking	0 1	off on
		OS 0 emergency locking	0	on
		O O O O		
897	coupler module 1	...	..	...
		OS 0 emergency locking	0	on

I/O type: Coupler module 5008 ESSERNET 300500857

Zones 1...48

I/O device-		Input states / Output states	Function value-	
No.	Name		No.	Name
900	zone 1	IS 0 activation	0 1 2 3	not present disarmed armed external armed
		IS 1 function test	0 1	off on
		IS 2 police emergency call	0 1	off on
		IS 3 delay	0 1 2	off switch-on delay. alarm delay
		IS 4 day monitoring	0 1	off active
		IS 5 internal alarm	0 1	off on
		IS 6 pre alarm	0 1	off on
		IS 7 alarm states	0 1 2 3 4 5	off pre alarm main alarm acoustic and optical main alarm acoustic main alarm optical silent alarm
		OS 0 switch	0 1 2 3 4 5 6	disarm arm arm external delete installer delete function function test on function test off
		O O O O		
947	zone 48	...	...	...
		OS 0 switch	0 1	disarm arm..

I/O type: Zones 5008 ESSERNET 00500858

Switchable outputs

I/O device-		Input states / Output states	Function value-	
No.	Name		No.	Name
950	switchable output 1	IS 0 tamper	0 1 2	not present off on
		IS 1 group fault	0 1	off on
		IS 2 communication fault	0 1	off on
		IS 3 continuous triggering	0 1	off on
		IS 4 switch off	0 1	off on
		IS 5 emergency locking	0 1	off on
		OS 0 emergency lock	0	on
		O O O O		
1717	switchable output 768	...	...	...
		OS 0 emergency locking	0	on

I/O type: Switchable output 5008 ESSERNET 300500859

Groups 1 - 1500

I/O device-		Input states / Output states	Function value	
No.	Name		No.	Name
1720	group 1	IS 0 state	0 1	ok released
		IS 1 malfunction	0 1 2	ok communication fault gruop fault
		IS 2 disconnection	0 1	off on
		IS 3 day monitoring	0 1	off active
		IS 4 emergency locking	0 1	off on
		IS 5 message	0 1 2 3 4 5 6	off pre alarm intrusion tamper fire attack TAL
		OS 0 switch	0 1	off on
		OS 1 emergency lock	0	on
		O O O O		
4792	group 3073	...	...	...
		OS 1 emergency lock	0	on

From I/O device number 3220/group number 1501 the groups are allocated to another central unit.

I/O type: Group 5008 ESSERNET 300500860

2.19 I/O device definition for Esser 800x Essernet

Connection of ESSER FDC 8000-Series to the ESSERNET-Gateway

1. Basic system configurations

Connection is executed via the Essernet gateway
A network with max. 30 further users can be connected per gateway.

Presently, you can connect to the Essernet gateway with :

- 62.5k - max. 16 users
- 500k - max. 31 users

alarm off
alarm on
delete alarm

1.1 Supported central units

ESSER FDC 8008
ESSER FDC 8007
ESSER FDC 8000M
ESSER FDC 8000C

2. Overview of I/O devices

I/O device		I/O types-ID	I/O device name
from	to		
1	1	300800001	panel mode
2	2	300800002	panel state
3	3	300800003	panel failures
4	4	300800004	energy supply
5	5	300800005	acoustic
6	6	300800006	printer
7	7	300800007	alarm delay
8	8	300800008	transmission unit general
9	18	300800009	transmission unit 10
101	200	300800010	primary lines
10001	16000	300800011	group / detector X
30001	31000	300800012	control groups

3. I/O device definitions

3.1 General I/O devices und panel operation

I/O device-		Input states / Output states	Function value-		
No.	Name		No.	Name	Alg
1	panel mode	IS 0 manual	0 1	off on	
		IS 1 test mode	0 1	off on	
		IS 2 revision	0 1	off on	110
		IS 3 PC-revision	0 1 2 3	off local other panel TEDIS	
		IS 4 remote maintenance	0 1	off running	116
		key operated switch	0 1	closed open	14
			0 1	closed open	
		IS 7 user level	0 1 2 3 4 5	no level 1 2 3 4 5	

I/O type: 300800001 Panel mode 8000 I/O No.: 1

3.2 Panel state

I/O device-		Input states / Output states	Function value-		
No.	Name		No.	Name	Alg
2	panel state	IS 0 fire brigade key box	0 1	ok feedback	 16
		IS 1 autodialer	0 1	ok reset	
		IS 2 BSL	0 1	ok released	 14
		IS 3 reset fire panel	0 1	off running	
		IS 4 emergency operation fire	0 1	ok alarm	 1
		OS 0 switch	0 1 2	reset buzzer off buzzer off, start exploration time	

I/O type: 300800002 Panel state 8000 I/O No.: 2

3.3 Panel malfunction

I/O device-		Input states / Output states	Function value-		
No.	Name		No.	Name	AlG
3	panel malfunction	IS 0 Essernet	0 1 2	ok left side right side	 191191
		IS 1 printer	0 1	ok malfunction	 14
		IS 2 CPU	0 1 2	ok breakdown CPU 1 breakdown CPU 2	 1414
		IS 3 test channel	0 1	ok failure	 14
		IS 4 communication node	0 1	ok failure	 14

I/O type: 300800003 Panel malfunction 8000 I/O No.: 3

3.4 Energy supply

I/O device-		Input states / Output states	Function value-		
No.	Name		No.	Name	AIG
4	energy supply	IS 0 net	0 1 2 3	ok short long unspecific	 14 14 14
		IS 1 battery	0 1	ok failure	 14
		IS 2 power supply unit	0 1 2 3 4 5	ok external unit failure failure ULINE failure UBINT failure UBEXT failure unspecific	 14 14 14 14 14
		IS 3 ground fault	0 1	ok failure	 14

I/O type: 300800004 Energy supply 8000 I/O No.: 4

3.5 Acoustics

I/O device-		Input states / Output states	Function value-		
No.	Name		No.	Name	AIG
5	acoustic (AE)	IS 0 state	0 1	active off	
		IS 1 failure	0 1	off on	 14
		IS 2 all alarm signalling units	0 1	all active all switched off	
		IS 3 switch off FBOU	0 1	off on	
		OS 0 switch	0 1	off on	

I/O type: 300800005 Acoustics 8000 I/O No.: 5

3.6 Printer

I/O device-		Input states / Output states	Function value-		
No.	Name		No.	Name	AIG
6	printer	IS 0 state	0 1 2 3 4 5	ok without paper without reaction without connection out of use unspecific	

I/O type: 300800006 Printer 8000 I/O No.: 6

3.7 Alarm delay

I/O device-		Input states / Output states	Function value-		
No.	Name		No.	Name	AIG
7	alarm delay	IS 0 state	0 1	switched off switched on	
		IS 1 switch delayed	0 1	off on	
		IS 2 alarm delay time	0 1	off running	17
		IS 3 exploration time	0 1	off running	17
		OS 0 switch	0 1 2	off on buzzer off, start exploration time	

I/O type: 300800007 Alarm delay 8000 I/O No.: 7

3.8 Transmission unit general

I/O device-		Input states / Output states	Function value-		
No.	Name		No.	Name	AIG
8	Transmission unit general (UE)	IS 0 state	0 1	on off	
		IS 1 failure	0 1	ok fault	14
		IS 2 switching FBOU	0 1	off on	
		IS 3 test operation	0 1	off on	1 15

I/O type: 300800008 Transmission unit general 8000 I/O No.: 8

3.9 Transmission unit

I/O device-		Input states / Output states	Function value-		
No.	Name		No.	Name	AIG
9	transmission unit 1 (UE1)	IS 0 feedback	0 1	on off	14
		IS 1 prevent activation	0 1	off on	14
O O O O					
18	Transmission unit 10 (UE10)	IS 0 feedback	0 1	on off	14
		IS 1 prevent activation	0 1	off on	14

I/O type: 300800009 Transmission unit 8000 I/O No.: 9-18

3.10 Primary lines

(maximal 100 for one central unit)

I/O device-		Input states / Output states	Function value-		
No.	Name		No.	Name	AIG
101	primary line 1	IS 0 transmission unit activation	0	no	
			1	TU1	15
			2	TU2	15
			3	TU3	15
			4	TU4	15
			5	TU5	15
			6	TU6	15
			7	TU7	15
			8	TU8	15
			9	TU9	15
			10	TU10	15
		IS 1 transmission unit delayed	0	no	
			1	TU1	15
			2	TU2	15
			3	TU3	15
			4	TU4	15
			5	TU5	15
			6	TU6	15
			7	TU7	15
			8	TU8	15
			9	TU9	15
			10	TU10	15
		IS 2 failure	0	off	
			1	line failure	14
			2	module failure	14
			3	power supply	14
			4	Dual Ported RAM-error	14
			5	topology	14
			6	test	117
			7	no communication	14
			8	unspecific	14
			9	line query	14
			10	net timeout	14
			11	UZ300X	14
			12	test channel	14
			13	Primary line	14

		IS 3 switch off	0 1 2 3 4 5 6 7 8 9	off complete O- sensor I-sensor OI-sensor key cover open revision active printer unspecific	 106 106 106 106 106 106 106 106 106
		IS 4 start period	0 1	off running	 107
		IS 5 exchange detector	0 1	no yes	 108
		IS 6 sector-actuation	0 1	no yes	
		IS 7 alarm	0 1	off on	 1
		OS 0 *1) switch	0 1	off on	
		OS 1 *2) switch sensor	0 1 2 3	O- sensor off I-sensor off OI-Sensor off all sensors on	
	O O O O				
200 *3)	primary line 100	OS 0 *1) switch	0 1	off on	
		OS 1 *2) switch sensor	0 1 2 3	O- sensor off I-sensor off OI-Sensor off all sensors on	

I/O type: 300800010 Primary line 8000 I/O No.: 101-200
I/O type: 300800014 Primary line 8000 switch only I/O No.: 101-200
I/O type: 300800015 Primary line 8000 without control I/O No.: 101-200

*1) not included in I/O device type 3008000015
*2) not included in I/O device type 3008000014 and 3008000015
*3) The total number of possible primary lines is :
FDC 8008: 59
FDC 8007/8000M: 34
FDC 8000C: 25

3.11. Detector groups/ detectors

(Max. 1000 groups with max. 5000 detectors, max. 32 detectors for every group)

I/O device-		Input states / Output states	Function value-		
No.	Name		Nr	Name	AIG
10001	Detector group/ detector 1	IS 0 transmission unit activation	0	no	
			1	TU1	15
			2	TU2	15
			3	TU3	15
			4	TU4	15
			5	TU5	15
			6	TU6	15
			7	TU7	15
			8	TU8	15
			9	TU9	15
			10	TU10	15
		IS 1 transmission unit delayed	0	no	
			1	TU1	15
			2	TU2	15
			3	TU3	15
			4	TU4	15
			5	TU5	15
			6	TU6	15
			7	TU7	15
			8	TU8	15
			9	TU9	15
			10	TU10	15
		IS 2 failure detector/group	0	off	
			1	on	14
			2	test failure	118
		IS 3 failure coupler	0	off	
			1	on	14
		IS 4 state detector/group	0	on	
			1	complete off	106
			2	O- sensor off	106
			3	I-sensor off	106
			4	OI-sensor off	106
			5	relay off	106
			6	external LED	106
			7	internal LED	106
			8	unspecific	106
		IS 5 state coupler	0	on	
			1	extinguishing system	106
			2	off	106
				switched off	106
		IS 6 test mode	0	off	
			1	on	117

		IS 7 alarm	0 1 2 3 4 5 6 7 8 9	off manual fire alarm technical alarm pre alarm stored alarm first of 2 groups first of 2 detectors first 2 detectors primary line test alarm	*1) 10/11 10/11 24 12/13 12/13 12/13 12/13 12/13 119
		OS 0 switch	0 1	off on	
		OS 1 *2) switch sensor	0 1 2 3	O- sensor off I-sensor off OI-sensor off all sensors on	
		OS2 test mode	0 1	off on	
		O O O O			
16000	Detector group/ detector 6000	IS 7			
		OS 0 switch	0 1	off on	
		OS 1 *2) switch sensor	0 1 2 3	O- sensor off I-sensor off OI-sensor off all sensors on	
		OS2 test mode	0 1	off on	

I/O type: 300800011 Detector/group 8000 I/O No.: 10001-16000
I/O type: 300800013 Group 8000 I/O No.: 10001-16000
I/O type: 300800016 Detector/group 8000 without switch sensor

I/O No.: 10001-16000
*1) the first value is valid for type 300800011 and 300800016, the second for type 300800013
*2) not available with I/O device type 300800016

3.12 Control group

(max. 1000 control groups)

I/O device-		Input states / Output states	Function value-		
No.	Name		No.	Name	AIG
30001	control group 1	IS 0 actuation	0 1 2 3	off complete actuation test function triggering actuation	 109 118 109
		IS 1 switching off	0 1	off complete	 106
		IS 2 failure	0 1 2 3	off complete unspecific test function	 106
		IS 3 blocking	0 1	off on	 105
		OS 0 switch	0 1	off on	
		OS 1 test mode	0 1	off on	
		OS 2 *1) relay failure	0	switch on	
		O O O O			
31000	control group 1000				
		IS 3 blocking	0 1	off on	 105
		OS 0 switch	0 1	off on	
		OS 1 test mode	0 1	off on	
		OS 2 *1) relay failure	0	switch on	

I/O type: 300800012 control group 8000 I/O No.: 30001-31000

I/O type: 300800017 control group 8000 without relay control I/O No.: 30001-31000

*1) not available with I/O device type 300800017

2.20 I/O device definition for OPC-Client

I/O-device-form:

I/O-device No.	1-32000 (is generated automatically)
Status number	0-7
Functional value number	0-15
Text information	Up to 200 symbols in max. 5 strings

Conversion of the OPC data types

1. I/O-types for VT_BOOL

I/O-types ID: 300600002

I/O device-		Input states / Output states	Function value-		Alarm reason
No.	Name		No.	Name	
XXXX	binary input	IS 0 state	0 1 2	state unknown off on	

I/O-types ID: 300600003

I/O device-		Input states / Output states	Function value-		Alarm reason
No.	Name		No.	Name	
XXXX	binary output	IS 0			
		OS 0 switch	0 1	off on	

I/O-types ID: 300600001

I/O device-		Input states / Output states	Function value-		Alarm reason
No.	Name		No.	Name	
XXXX	binary in-/output	IS 0 state	0 1 2	unknown off on	
		OS 0 switch	0 1	off on	

2. I/O-types for VT_I1, VT_I2, VT_I4, VT_UI1, VT_UI2, VT_UI4

I/O-types ID: 300600011

I/O device-		Input states / Output states	Function value-		Alarm reason
No.	Name		No.	Name	
XXXX	Integer in	IS 0 digit 1	0 1 2 3 4 5 6 7 8 9 10	_ 1 2 3 4 5 6 7 8 9 0	
		IS 1 digit 2	0 1 2 3 4 5 6 7 8 9 10	_ 1 2 3 4 5 6 7 8 9 0	
		O O O O			
		IS 6 digit 6	0 1 2 3 4 5 6 7 8 9 10	_ 1 2 3 4 5 6 7 8 9 0	
		IS 7	0 1 2 3	unknown + - overflow	

With every modification the total value is transferred as I/O-TEXT1

I/O-types ID: 300600012

I/O device-		Input states / Output states	Function value-		Alarm reason
No.	Name		No.	Name	
XXXX	Integer out	IS 0			
		S 0 switch	0	value (the value is transfered as first string ‚+' symbol as option)	

I/O-types ID: 300600010

I/O device-		Input states / Output states	Function value-		Alarm reason
No.	Name		No.	Name	
XXXX	Integer in/out	S 0 digit 1	0 1 2 3 4 5 6 7 8 9 10	1 2 3 4 5 6 7 8 9 10 11	
		IS 1 digit 2	0 1 2 3 4 5 6 7 8 9 10	1 2 3 4 5 6 7 8 9 10 11	
o o o o					

		IS 6 digit 6	0 1 2 3 4 5 6 7 8 9 10	1 2 3 4 5 6 7 8 9 10 11	
		IS 7	0 1 2 3	unknown + - overflow	
		OS 0 switch	0	value (the value is transferred as first string ‚+' symbol as option)	

With every modification the total value is transferred as I/O_TEXT1

3. I/O-types for VT_R4, VT_R8

see 2. I/O-types for VT_I1, VT_I2, VT_I4, VT_UI1, VT_UI2, VT_UI4
Additionally supported is the float/real value *10, *100, *1000, *10000

I/O-types then are idenical with I/O-types ID: 300600010, I/O-types ID: 300600011
I/O-types ID: 300600012

4. I/O-types for VT_BSTR

I/O-types ID: 300600021

I/O device-		Input states / Output states	Function value-		Alarm reason
No.	Name		No.	Name	
XXXX	String in	IS 0 state	0 1 2	state unknown _ new value (the value is transferred as I/O_TEXT1)	

I/O-types ID: 300600022

I/O device-		Input states / Output states	Function value-		Alarm reason
No.	Name		No.	Name	
XXXX	String out	IS 0			
		OS 0 switch	0	value (the value is transferred as first string)	

I/O-types ID: 300600020

I/O device-		Input states / Output states	Function value-		Alarm reason
No.	Name		No.	Name	
XXXX XXXX	String out String in/out	IS 0 IS 0 state	0 1 2	state unknown _ new value (the value is transferred as I/O_TEXT1)	
		OS 0 switch	0	value (the value is transferred as first string)	

2.21 Signal point definition for DEZ (digital reception centre)

The reception date of the signal is imported to the IGIS block.
All signals already acknowledged by the DEZ contain an additional text 1 with the acknowledgement date.
Signals that were not acknowledged are marked with “NO_ACK“.These signals are shown by WINMAG for processing.
Replies to initialisation or a control command reset do not contain any additional text and are therefore not shown to WINMAG for processing.
Each signal (except for initialisation -> contains no additional text) should be acknowledged on DEZ 9000 signal point 1. Only then is the next signal transmitted.
The driver first generates a message for the clear signal (does not need to be acknowledged) and then the fire alarm signal if the driver detects no status change in a signal from the DEZ (e.g. fire alarm from a VDS input that is already set to fire alarm).
The status is reset after the time period X and the signal transmitted again if WINMAG does not acknowledge a signal via DEZ signal point 1.

* This means that no status is saved in the signal point list, the signal point status being instead immediately reset again.

1 DEZ 9000

The object for the DEZ has the IGIS address 1 and only exists once for each driver.

All signals for an unidentified Telim object are illustrated in address 2.

All signals for an unidentified ISDN object are illustrated in address 3.

Addresses 4 to 252 stand for the actual objects available (will presumably be expanded for WINMAG V10)

2 Telim-compatible object

Object ID numbers are saved in WINMAG. Prespecified Telim objects have already been saved in WINMAG.

3 VdS object

Object ID numbers are saved in WINMAG. The zone, group, address and address suffix of inputs are saved in WINMAG as ID1 and ID2.

Prespecified objects have already been saved in WINMAG for Esser centres HB24,HB48,....

9.21.1 Description DEZ 9000

1. General I/O devices

I/O device No.	Name	Input States/ Output States	Function value- No.	Name
1	Acknowledgement	SF0 Message	0	acknowledge
2	Power supply	MZ 0 Mains	0 1	oK (na00) faulty (na01)
3	Mainboard	MZ 1 Accumulator	0 1	ok (na00) faulty (na01)
		MZ 0 Checksum error	0 1	no yes (na10)
		MZ 1 Reset with RAM-Erasure	0 1	no yes (na11)
		MZ 2 Out Of Memory	0 1	no yes (na13)
		MZ 3 Loss of Messages	0 1	no yes (nb03)
4	Printer	SF 0 Reset	0 1	checksum error reset with RAM-Erasure out of Memory loss of Messages
		MZ 0 Paper	0 1	ok empty
		SF 0 reset	0	paper empty
5	Control centre	MZ 0 Connection	0 1	ok (na12) faulty (na19)
6	User*	Message	0 1 3	no-load status login (na15) logout (na16)
7	Faulty connection*	Message	0 1 3 4	no-load status without data transmission without valid ID busy receiver module [na04, na05, na20, na25 text 2 telephone number, Text3 module address, Text module type (analog/ISDN)]
10	Unknown Message*	Unknown Message	0 1	no-load status message
11	Status request	all Objects	0 1	stop start

2. DEZ 9000 Modules (Over all 10 modules possible. As example one module is listed in each case. Types: Analog, ISDN, ISDN with GSM, Datex-P)

I/O device No.	Name	Input States/ Output States	Function value- No.	Name
100-109	Analog Module	IS 0 Telephone line	0 1	ok (na02) faulty (na03)
		IS 1 Telephone	0 1	on-hook (na06) detached (na07)
100-109	ISDN Module	IS 0 ISDN	0 1	ok (na24) faulty
		IS 1 Out of memory	0 1	ok occurred
100-109	ISDN Datex-P Module	IS 0 State of X25	0 1	ok (na27) faulty
		IS 1 Out of memory	0 1	ok occurred
100-109	ISDN /GSM Module	IS 0 ISDN	0 1	ok (na24) faulty
		IS 1 Out of memory	0 1	ok occurred
		IS 2 PIN	0 1 2	ok (na28) error locked
		IS 3 GSM-Modem	0 1 2 3 4	ok offline detected failed not or wrong configured
		O O O O		
... 109	Analog module or ISDN module or ...	...	...	...

2. Telim compatible object

A message to the unknown Telim object causes a direct reset to the idle state. This ensures a modification in each case (see also *). As text2 always the ID number is transferred.

1. General I/O devices

I/O device No.	Name	Input States/ Output States	Function value- No.	Name
1	Routine call	IS 0 State	0 1 2	ok (nb02) missing routine message
		OS 0 Reset	0	yes
2	Connect*	IS 0 Message	0 1	no-load status not reachable (na18)
		OS 0 Remote interrogate	0	execute
3	Remote control data*	IS 0 Message	0 1 2	no-load status (na30, na31,nb10) is sent no answer
4	Transmission path*	Message	0 1	no-load status (nb04) discrepancy (Text2 actual way, text3 projected way)
5	Text-message*	Message	0 1	no-load status (nb05) new Message
6	Power supply unit	IS 0 mains	0 1	ok(nb00,nb01) faulty
		IS 1 Accumulator	0 1	ok faulty
		OS 0 Reset	0 1	mains faulty accumulator faulty
7	Telephone line	IS 0 Telephone line	0 1	ok faulty
		OS 0 Reset	0	telephone line faulty

2. Telim Channels
Only the channel is changed which gives the reason for transfer.

I/O device		Input States/ Output States	Function value-	
No.	Name		No.	Name
100	Channel 1	IS 0 Message	0 1 2	unknown ok (nb00,nb01) Actuated
		OS 0 reset	0	yes (State will be set to Ok, should normally not be used because it could lead to trouble monitoring for example the arming state)
101	Channel 2	IS 0 Message	1	ok ...
		O O O O		
... 115	Channel 16	...	...	...

3 VDS Object

A message to the unknown VdS object causes a direct reset to the idle state. This ensures a modification in each case (see also *). As text2 always the ID number is transferred.

1. General I/O devices

I/O device No.	Name	Input States/ Output States	Function value- No.	Name
1	Routine call	IS 0 State	0 1 2	ok(nb02) missing routine message
		OS 0 reset	0	Yes
2	Connect*	IS 0 Message	0 1	ok not reachable (na26)
3	Remote control data*	IS 0 Message	0 1 2	no-load status (na30, na31,nb10) is sent no answer
4	Wrong transmission way*	IS 0 Message	0 1	no-load status (nb04) discrepancy (Text2 actual way, Text3 projected way)
5	ASCII-Message*	IS 0 Message	0 1	no-load status (nb05) new Message
6	Network state	IS 0 Message	0 1 2 3 4 5 6	unknown Ok failure busy device not reachable wrong Number transparent ASCII-Message (see P. 78 in DEZ-Communication description, record type 60H)
7	Transport service identifier	IS 0 Message	0 1 2 3 4 5 6 7 8 9 10 11	No-load status analog fixed line analog demand driven connection X.25 or Datex-P ISDN, B-Channel ISDN, D-Channel trunked radio, private mobile radio radio data transmission cellular radio (see P. 79 in DEZ-Communication description, record type 61H)

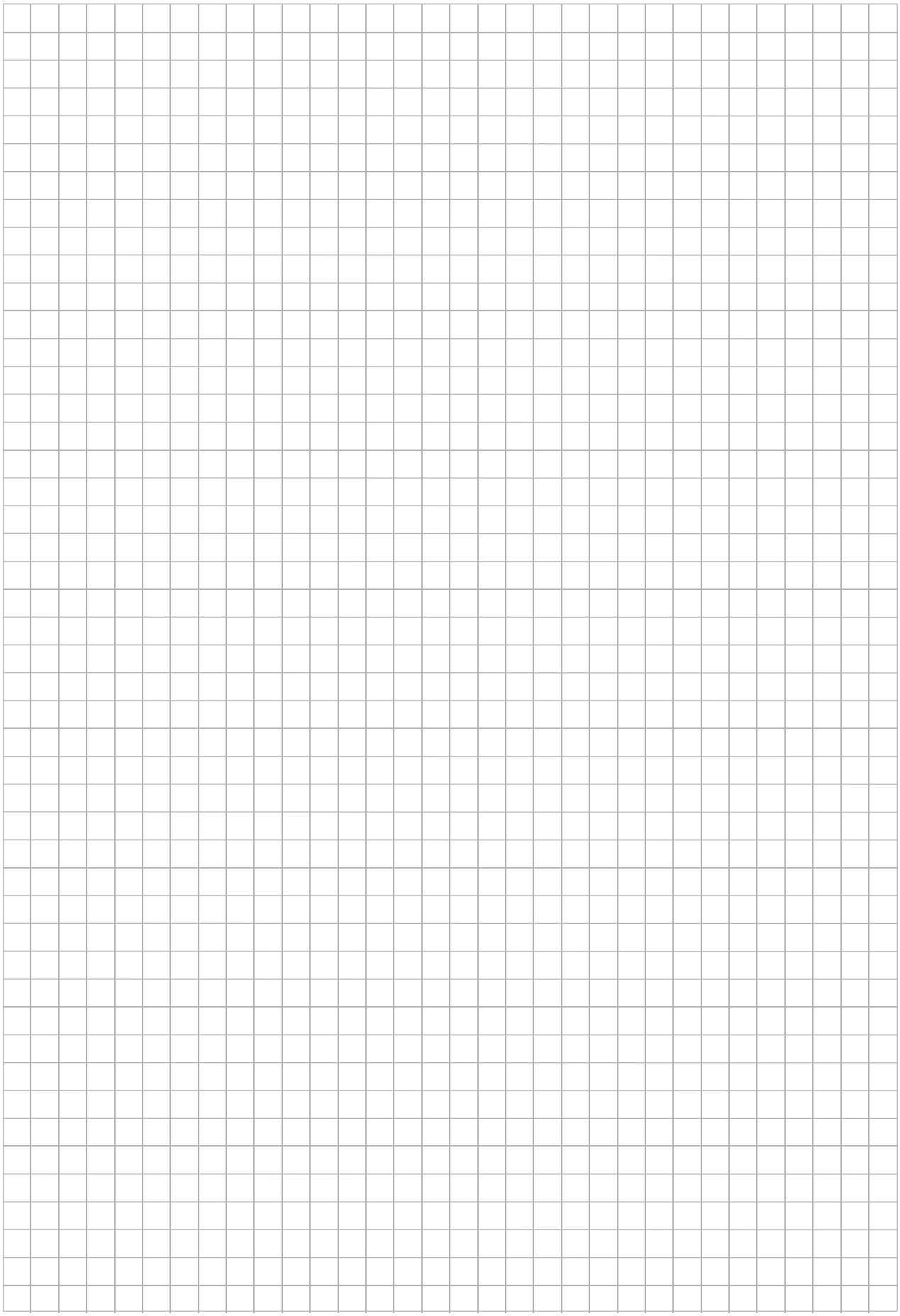
2. VDS detection inputs

I/O device No.	I/O device Name	Input States/ Output States	Function value- No.	Function value- Name
100	unknown detection input*	IS 0 Unspecified Message	0	unknown
			1	off
			2	on
			3	triggered
		IS 1 Fire message	0	reset
			1	triggered
			2	manual detector
			3	automatic detector
			4	extinguisher system off
		IS 2 Hold-up / Burglary message	0	unknown
			1	reset
			2	triggered
			3	hold-up
			4	burglary
			5	tamper
			6	hostage-taking
		IS 3 Fault message	0	unknown
			1	reset
			2	triggered
			3	primary line
			4	mains
			5	battery
			6	transmission path
			7	ground fault
			8	test message
			9	power supply unit transmission device
			10	buffer overflow
			11	unsent messages
			12	transmission path 1
			13	transmission path 2
		IS 4 technical message	0	unknown
			1	reset
			2	triggered
			3	technical alarm
			4	emergency message
			5	emergency message 1
			6	emergency message 2
			7	emergency message 3
			8	emergency message 4
		IS 5 Device message	0	unknown
			1	reset
			2	shutdown
			3	reset+
			4	re-start+
			5	message buffer overflow+
			6	system failure+

			7	cover contact open
			8	+has to be reset manually
		IS 6 State message	0	unknown
			1	disarmed/off
			2	armed
			3	armed internally
			4	day operation
		OS 0 Reset	0	yes (is performed by the driver automatically)
1000	detection input	IS 0 Unspecified Message	0	unknown
			1	off
			2	on
			3	triggered
		IS 1 Fire message	0	unknown
			1	reset
			2	triggered
			3	manual detector
			4	automatic detector
			5	extinguisher system off
		IS 2 Hold-up/Burglary	0	unknown
			1	reset
			2	triggered
			3	hold-up
			4	burglary
			5	tamper
			6	hostage-taking
		IS 3 Fault message	0	unknown
			1	reset
			2	triggered
			3	primary line
			4	mains
			5	battery
			6	transmission path
			7	ground fault
			8	test message
			9	power supply unit transmission device
			10	buffer overflow
			11	unsent messages
			12	transmission path 1
			13	transmission path 2
		IS 4 technical message	0	unknown
			1	reset
			2	triggered
			3	technical alarm
			4	emergency message
			5	emergency message 1
			6	emergency message 2
			7	emergency message 3
			8	emergency message 4

		IS 5 Device message	0 1 2 3 4 5 6 7 8	unknown reset shutdown reset+ re-start+ message buffer overflow+ system failure+ cover contact open +has to be reset manually
		IS 6 State message	0 1 2 3 4	unknown disarmed/off armed armed internally day operation
		OS 0 Reset	0	yes (State will be set to Ok, should normally not be used because it could lead to trouble monitoring for example the arming state)
		OS 1 State request	0 1 2 3 4	input status of block Date/Time Supported record types Manufacturer identification
		O O O O		
.. 9999	detection input	...	...	..

3. Notes



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