Product Manual

ABB i-bus[®] EIB / KNX EIB Monitoring Unit EUB/S 1.1

Intelligent Installation Systems





This manual describes the function of the EIB monitoring module EUB/S 1.1 with the Application program "EIB Monitoring/1.2".

Subject to changes and errors excepted.

Exclusion of liability:

Despite checking that the contents of this document match the hardware and software, deviations cannot be completely excluded. We therefore cannot accept any liability for this. Any necessary corrections will be inserted in new versions of the manual.

Please inform us of any suggested improvements.

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ABB i-bus® EIB / KNX General

1	General	The EIB Monitoring Unit EUB/S 1.1 is an EIB / KNX modular installation device with a module width of 2 space units. The unit is used to monitor up to 100 devices in EIB / KNX installations. The devices (bus members) are monitored to ensure their presence and minimum functionality (send and receive).
1.1	Product and functional overview	Devices can be monitored via the physical address (PA) or via a group address telegram (GA). Overall there are four monitoring modes available:
		Monitoring mode: Poll physical address cyclically With this mode of monitoring the unit cyclically polls the physical address of the devices to be monitored to ensure that they are still present. The EUB/S sends a polling request to the device to be monitored. If the device is present and in operation it will respond and the EUB/S detects the device. If there is no response after a certain time, the EUB/S evaluates a failure.
		Monitoring mode: Poll physical address by object With this mode of monitoring the devices to be monitored can be polled by other bus members in the EIB / KNX system. For example, devices can be polled via a pushbutton or a time switch at a certain time. If a connection cannot be established to the monitoring device, it will be evaluated as a failure.
		Monitoring mode: Receive group address cyclically This mode of monitoring is also referred to as passive monitoring. Telegrams which are cyclically sent by the device being monitored are evaluated. If the telegrams are not received for a definable time, it will be evaluated as a failure. For this monitoring mode it is necessary that the devices being monitored can send telegrams cyclically.
		Monitoring mode: Poll group address cyclically This mode of monitoring is also referred to as active monitoring. With active monitoring the EIB Monitoring Unit cyclically sends telegrams to the device to be monitored and evaluates the telegrams received. If the EIB Monitoring Unit does not receive a response telegram within an adjusted time, it will be evaluated as a failure.

Device technology

2 Device technology



The EIB Monitoring Unit EUB/S 1.1 enables monitoring of up to 100 devices in EIB / KNX systems. The bus devices (members) are monitored to ensure their presence and minimum functionality (send and receive).

The monitoring occurs by four different monitoring modes. Furthermore, devices can be combined in up to 5 groups for monitoring purposes.

2.1.1 Technical Data

Power supply	– Operating voltage – Power consumption – Leakage loss	21 30 V DC, via EIB Max. 10 mA Max. 200 mW
Connections	– EIB / KNX	Bus connection terminal
Operating and display elements	- Red LED and button	For assignment of the physical address
Enclosure	– IP 20	According to DIN EN 60 529
Safety class	- 11	According to DIN EN 61 140
Isolation category	– Overvoltage category – Pollution degree	III to DIN EN 60 664-1 2 to DIN EN 60 664-1
EIB / KNX safety extra low voltage	– SELV 24 V DC	
Temperature range	– Operation – Storage – Transport	- 5 °C+ 45 °C - 25 °C+ 55 °C - 25 °C+ 70 °C
Design	 Modular installation device (REG) Dimensions Module width Mounting depth 	Modular installation device, Pro <i>M</i> 90 x 36 x 64,5 mm (H x W x D) 2 modules at 18 mm 64,5 mm
Installation	– On 35 mm mounting rail	According to DIN EN 60 715
Mounting position	– As required	
Weight	– 0.1 kg	
Housing, colour	 Plastic housing, grey 	
CE norm	 In accordance with the EMC guideline and low voltage guideline 	
Certification	– EIB / KNX to EN 50 090-1, -2	
Tab. 1: Technical Data		

Application program	Number communicati	on objects	Max. number of group addresses	Max. number of associations
EIB Monitoring/1.2	232		254	255
Tab. 2: Application program	Note:	The programming requires EIB Software Tool ETS2 V1.1.3a or higher. If ETS3 is used a ".VD3" type file must be imported The application program is available in the ETS2 / ETS3 at ABB/Security and Monitoring / Controller.		ype file must be imported. e in the ETS2 / ETS3 at
	Note:	in operatior	o o	toring can cause failures ng of devices should be

Device technology

Note:

Monitoring via the physical address might not be possible for some devices or can affect operation. Those devices have to be monitored via a group address telegram.

Examples:

- Display and Control Tableau MT 701.2

Monitoring or polling via the physical address is not possible for this device. Monitoring only via group address telegram.

- Universal Concentrator UK/S 32.2

During a monitoring request via the physical address, this device doesn't react on input signals and doesn't update outputs respectively.

Device technology



Fig. 2: Connection diagram

- 1 Label carrier
- **2** Programming button
- **3** Programming LED (red) **4** Bus connection terminal
- 4 Bus connection termina

2.3 Dimension drawing



Fig. 3: Device dimensions

2.4 Assembly and installation

The EIB Monitoring Unit EUB/S 1.1 is suitable for installation in the distribution board or small enclosures for fast installation on 35 mm mounting rails to DIN EN 60 715.

The mounting position can be selected as required.

Accessibility to the device for the purpose operation, testing, visual inspection, maintenance and repair must be provided (conform to DIN VDE 0100-520).

3.1 Overview

The *"EIB monitoring/1.2"* application program is available for the EIB monitoring unit. The programming requires EIB Software Tool ETS2 **V1.2a** or higher. If ETS3 is used a *".VD3"* type file must be imported.

Supplied state

The device is supplied with the physical address 15.15.255. The program is already pre-installed. In order to completely reprogram the unit, it must be discharged before programming via the ETS.

Cycle times

In order to keep the bus load and telegram traffic by using the EIB Monitoring Unit as low as possible, minimum cycle times have been set as default for the *Poll physical address cyclically* and *Poll group address cyclically* modes:

Devices to be monitored	Minimum preset cycle time
Devices 16	10 s
Devices 718	1 min
Devices 19100	10 min

Tab. 3: Preset cycle times

Note:

In order to keep the bus load as low as possible with monitoring mode *Receive group address cyclically*, the monitoring cycles of cyclically sending devices should be adjusted longer than 10 minutes.

3.2 Parameter

In the following sections the individual parameter windows with their respective parameters are described in detail. Underlined parameters which are listed by the options are default parameters.

3.2.1 Parameter window "General"

.1.4 EUB/S1.1 EIB Monitoring Unit, MDR	C	×	
Notes	General		
General Selection 1 2 3 4 5 6 7 7 8 9 9 10 Group 1 Group 2 Group 3 Group 3 Group 5 All	Inactive time after programming, bus voltage recovery and reset Reaction after inactive waiting time Send "Device in operation" telegram cyclically	None Immediate polling - 1s telegr. interval no	
	OK Car	ncel Default Info Help	

Fig. 4: "General" Parameter window

Inactive time after programming, bus voltage recovery and reset Options: <u>None</u> / 1s / ... / 40s / 1min / ... / 40min / 1h / ... / 10h / 24h

All object values are deleted after bus voltage recovery, programming and reset. A so-called inactive time can be programmed. During this time no telegrams will be sent and received telegrams will not be evaluated.

Reaction after inactive waiting time

Options: <u>no immediate polling of all devices</u> Immediate polling - 1s telegr. interval ... Immediate polling - 10s telegr. interval

After the inactive time has timed out, either the monitoring with parameterised individual monitoring times can start or an immediate poll of all monitored devices can be undertaken. The time between the polling telegrams is adjustable.

Send "In operation" telegram cyclically

Options: <u>no</u>/yes

Cyclical telegrams can be sent with this parameter. These telegrams can be used to monitor the operation of the EIB Monitoring Unit. If for example the value "1" is sent cyclically to an actuator with the staircase lighting function, the failure of the EIB Monitoring Unit can be signalled if the telegram is not received.

If the option *yes* is selected, the respective parameter *Cycle time* will be displayed.

Cycle time

Options: 10s / ... / 40s / 1min / ... / 40min / 1h / ... / 10h / <u>24h</u>

With this parameter you can determine the intervals at which the EIB Monitoring Unit should send telegrams for the purpose of monitoring operation.

3.2.2 Parameter window "Selection"

The EIB Monitoring Unit EUB/S 1.1 enables monitoring of up to 100 devices. In the parameter window *Selection* you can determine the number of devices to be monitored.

1.1.4 EUB/S1.1 EIB Monitoring Unit, MDRC			
Notes General	_	Selection	
Selection Group 1	Monitoring devices 110	no	•
Group 2 Group 3	Monitoring devices 1120	no	•
Group 4 Group 5	Monitoring devices 2130	no	•
All	Monitoring devices 3140	no	•
	Monitoring devices 4150	no	•
	Monitoring devices 5160	no	•
	Monitoring devices 6170	no	•
	Monitoring devices 7180	no	•
	Monitoring devices 8190	no	•
	Monitoring devices 91100	no	•
	OK	Cancel Default Info	Help

Fig. 5: Parameter window "Selection"

Monitoring devices xx..xx Options: <u>no</u>/yes

If for example the parameter *Monitoring devices 1..10* is enabled with option *yes*, devices 1 to 10 can be parameterised. If 100 devices have to be monitored, all parameters in this parameter window must be confirmed with *yes*.

3.2.3 Parameter window "1...100"

There is one parameter window for every device to be monitored. The monitoring mode can be set separately for the individual devices.

1.1.4 EUB/S1.1 EIB Monitoring Unit, MDR	C		×
Notes General		1	
Selection 1 2 3 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Device 1: Mode of monitoring	no monitoring	•
5 6 7 8 9 10			
Group 1 Group 2 Group 3 Group 4 Group 5 All			
	ΟΚ	Cancel Default In	ifo Help

Fig 6: Parameter window "x: Mode of monitoring"

Device x: Mode of monitoring

Options: <u>no mor</u> Poll ph

no monitoring Poll physical address cyclically Poll physical address by object Receive group address cyclically Poll group address cyclically

The functions of the parameter values for the modes of monitoring are explained in the following four sections.

3.2.3.1 Mode of monitoring "Poll physical address cyclically"

If a device is polled via the physical address, a cyclical transport connection is established to the monitoring device. If a status response acknowledgement of the device being monitored is not received, it will be evaluated as a failure.

If the monitoring mode *Poll physical address cyclically* has been selected, the following parameter window will be displayed in the ETS3.

.1.4 EUB/S1.1 EIB Monitoring Unit	, MDRC		×
Notes	_	1	
General Selection 2 3 4 5 5 6 7 8 9 10 Group 1 Group 2 Group 3 Group 3 Group 4 Group 5 All	Device 1: Mode of monitoring Area Line Bus member A cyclical connection to the device with this phy. address will be established and the answering telegram will be monitored. Cycle time Block monitoring by object Device 1 is assigned to	Poll physical address cyclically 1 1 3 10s no Group 1	• •
	ОК	Cancel Default Info H	lelp

Fig 7: Parameter window "x: Poll physical address cyclically"

With the parameters *Area, Line* and *Bus member* the physical address of the respective device to be monitored in the EIB / KNX system is set.

Area

1

Options: <u>1</u>...15

Here you define the area in which the devices to be monitored are located.

Line

Options: <u>1</u>...15

Here you define the line in which the devices to be monitored are located.

Bus member

Options: <u>1</u>...255

Here you define the device number of the device to be monitored in the system.

Cycle time

Options: 10s / ... / 40s / 1min / <u>10min</u> / ... / 40min / 1h / ... / 10h / 24h

With this parameter you can determine the intervals at which a connection has to be established to the devices to be monitored.

Block monitoring by object

Options: <u>no</u>/yes

With this function the connection to a device is blocked by an object. This is necessary for example in order to commission a device. If the option *yes* is selected, the respective parameter *Blocking is limited by time* will be displayed.

Blocking is limited by time

Options: 10s / ... / 1min / 10min / ... / 40min / 1h / ... / 10h / 24h / <u>no</u>

Here you define how long the monitoring of the device via the object has to be blocked.

Device x is assigned to Options: <u>no group</u>

no group Group 1 Group 2 Group 3 Group 4 Group 5

Each device can be assigned to one of five groups. In one group the collective message and other functions are assigned. For more details see section 3.2.4.

3.2.3.2 Mode of monitoring "Poll physical address by object"

With this mode of monitoring it is possible to initiate monitoring by an external device (e.g. pushbutton, timer).

If the monitoring mode *Poll physical address by object* is activated, the following parameter window will be displayed in the ETS3.

.1.4 EUB/S1.1 EIB Monitoring Unit, MDR	C	×
I.I.4 EUB/S1.1 EIB Monitoring Unit, MDR Notes General Selection 1 2 3 4 5 6 7 8 9 10		Poll physical address by object Image: Constraint of the second
10 Group 1 Group 2 Group 3 Group 4 Group 5 All	telegram with value "1" to the object "polling device 1". Device 1 is assigned to	no group
	OK Cano	Default Info Help

Fig. 8: Parameter window "x: Poll physical address by object"

With the parameters *Area, Line* and *Bus member* the physical address of the respective device to be monitored is set.

Area

Options: <u>1</u>...15

Here you define the area in which the devices to be monitored are located.

Line

Options: <u>1</u>...15

Here you define the line in which the devices to be monitored are located.

Bus member

Options: <u>1</u>...255

Here you define the device number of the device to be monitored in the system.

Device x is assigned to

Options:	<u>no group</u> Group 1
	Group 2
	Group 3
	Group 4
	Group 5

Each device can be assigned to one of five groups. In one group the collective message and other functions are assigned. For more details see section 3.2.4.

3.2.3.3 Mode of monitoring "Receive group address cyclically"

With mode of monitoring *Receive group address cyclically* (passive monitoring), the device to be monitored sends a telegram cyclically which is received by the EIB Monitoring Unit. A requirement for this mode is that the device to be monitored can send telegrams cyclically. If this mode of monitoring is selected the following parameter window will be displayed in the ETS3.

1.1.4 EUB/51.1 EIB Monitoring Unit, MDR	C	×
I.1.4 EUB/51.1 EIB Monitoring Unit, MDR General Selection 1 2 3 4 5 6	C Device 1: Mode of monitoring Monitoring by evaluation of telegrams which are sent cyclically by the monitored device to object "Receive telegram".	1 Receive group address cyclically
7 8 9 10 Group 1 Group 2 Group 3 Group 4 Group 5 All	Cycle time Device 1 is assigned to	10min 💌 no group 💌
	ок с	ancel Default Info Help

Fig. 9: Parameter window "x: Receive group address cyclically"

Cycle time

Options:

Commissioning

10s / ... / 40s / 1min / <u>10min</u> / ... / 40min / 1h / ... / 10h / 24h

The cycle time of the EUB/S should be at least twice as long as the time the device to be monitored sends cyclically the group address. This should be done to avoid in case of a delay, that the device to be monitored will be evaluated as failure.

Device x is assigned to

Options:	<u>no group</u>
	Group 1
	Group 2
	Group 3
	Group 4
	Group 5

Each device can be assigned to one of five groups. In one group the collective message and other functions are assigned. For more details see section 3.2.4.

3.2.3.4 Mode of monitoring "Poll group address cyclically"

With this mode of monitoring a device can be monitored while the EIB Monitoring Unit sends cyclical telegrams to the device to be monitored and evaluates the response telegrams.

Notes: The read flag must be set for the object to be polled in the monitored device.

> If several devices use the group address to be polled, the read flag has to be set only in the device to be monitored.

The assigned group address of the object to be polled must be set as "send" in the ETS.

If *Poll group address cyclically* mode is selected, the following parameter window will be displayed in the ETS3.

1.1.4 EUB/S1.1 EIB Monitoring Unit, MDR	E	×			
Notes	1				
General Selection 2 3 4 5 6 6 7 8 8 9 9 10	Device 1: Mode of monitoring Object "Device 1-send/receive telegram" polls cyclically the object assigned by a group address and evaluates the answering telegrams. The read flag has to be set for the device to be monitored!	Poll group address cyclically			
Group 1 Group 2 Group 3 Group 4 Group 5 All	Cycle time Maximum response time allowed Device 1 is assigned to	10min ▼ 5s ▼ Ino group ▼			
	OK Cance	el Default Info Help			

Fig. 10: Parameter window "x: Poll group address cyclically"

Cycle time

Options: 10s / ... / 40s / 1min / <u>10min</u> / ... / 40min / 1h / ... / 10h / 24h

The cycle time is used to adjust the intervals in which the unit should send polling telegrams to the device to be monitored.

Maximum response time allowed

Options: 500ms / ... / 1s / ... / <u>5s</u> / ... / 10s

This parameter is used to adjust the time within the expected response telegram should be received. If the unit can not receive a response telegram within this time, it will be evaluated as a failure.

Device x is assigned to Options: <u>no group</u>

IS:	<u>no group</u>
	Group 1
	Group 2
	Group 3
	Group 4
	Group 5

Each device can be assigned to one of five groups. In one group the collective message and other functions are assigned. For more details see section 3.2.4.

3.2.4 Parameter window "Group 1..5"

Each monitored device can be assigned to any group. Five groups are available for this purpose.

1.1.4 EUB/51.1 EIB Monitoring Unit, MDR	E		×		
Notes	Group 1				
Notes General Selection 1 2 3 4 5 6 6 7 8 9 9 10 Group 2 Group 2 Group 3 Group 4 Group 4 Group 5 All	Enable object which blocks polling via physical address Enable object which blocks polling via group address Send collective message cyclically	no no no	Y		
	OK	Cancel Default Info	Help		

Fig. 11: Parameter window "Group 1..5"

Enable object which blocks polling via physical address Options: <u>no</u>/yes

If the option *yes* is selected, the object *Block connection to phy. addr.* is enabled. With this object the monitoring of devices which are polled via the physical address and which have been assigned to this group can be blocked. The respective parameter *Blocking is limited by time* will be displayed.

Blocking is limited by time

Options: 10s / ... / <u>1min</u> / 10min / ... / 40min / 1h / ... / 10h / 24h / no

Here you define how long the polling of devices of this group has to be blocked.

Enable object which blocks polling via group address

Options: <u>no</u>/yes

If the option *yes* is selected the object *Block telegram reporting* is enabled. With this object the monitoring of the devices which are polled via the group address and which have been assigned to this group can be blocked. The independent parameter *Blocking is limited by time* will be displayed.

Blocking is limited by time

Options: 10s / ... / <u>1min</u> / 10min / ... / 40min / 1h / ... / 10h / 24h / no

Here you define how long the polling of devices of this group has to be blocked.

Send collective message cyclically

Options: <u>no</u> yes – every 10min ... yes – every 1h ...

yes - every 24h

A collective message of the respective group can be sent with this parameter.

3.2.5 Parameter window "All"

In this parameter window a higher level collective message which applies for all monitored devices can be defined. Corresponding with the parameters of the parameter window *Group 1-5*, the same parameters are used for all devices and do not relate to a specific group.

I.1.4 EUB/S1.1 EIB Monitoring Unit, MDR	C		×
Notes General		All	
Selection 1 2 3 4 5 6 7 8 9 10 Group 1 Group 2 Group 3 Group 4 Group 5 All	Enable object which blocks polling via physical address Enable object which blocks polling via group address Send collective message cyclically	no no no	v v
	OK	Cancel Default Info	Help

Fig. 12: Parameter window "All"

Enable object which blocks polling via physical address Options: <u>no</u>/yes

If the option *yes* is selected an object is enabled. With this object the monitoring of all devices which are polled via the physical address can be blocked. The respective parameter *Blocking is limited by time* will be displayed.

Blocking is limited by time

Options: 10s / ... / <u>1min</u> / 10min / ... / 40min / 1h / ... / 10h / 24h / no

Here you define how long polling via the physical address of all devices has to be blocked.

Enable object which blocks polling via group address

Options: <u>no</u>/yes

If the option *yes* is selected an object is enabled. With this object the monitoring of all devices which are polled via the group address can be blocked. The respective parameter *Blocking is limited by time* will be displayed.

Blocking is limited by time

Options: 10s / ... / <u>1min</u> / 10min / ... / 40min / 1h / ... / 10h / 24h / no

Here you define how long polling via the group address of all devices has to be blocked.

Send collective message cyclically

Options:

<u>no</u> yes – every 10min ... yes – every 1h ... yes – every 24h

With this parameter a collective message of all devices to be monitored can be sent cyclically.

Commissioning

3.3 Communication object

No.	Function	Object name	Data type	Flags
1, 3, 	Failure	Device xx	1 Bit EIS1 DPT 1.001	C, R, T
199				
	ject is used to indicate the failu			
	ot possible to poll a physical ac t been received 3times in a row.			
	erational		be updated by alter	
1 : Fail				
2, 4,	Block connection to	Device xx	1 Bit EIS1	C, W
 200	phy. addr.		DPT 1.001	
	is object the cyclical polling of r	hysical addresses (PA)	is blocked	
	of monitoring "Poll address cycl	,	IS DIOCKEU.	
	ble polling	loany		
	ck polling			
2, 4,	Polling	Device xx	1 Bit EIS1	C, W
			DPT 1.001	
200				
	ject initiates polling of the phys		e to be monitored.	
	of monitoring "Poll physical add	ress by object"		
	reaction t polling			
2, 4,	Receive telegram	Device xx	1 Bit EIS1	C, W,
_, ., 			DPT 1.001	Upd
200				
	ject receives cyclical telegrams		-	
	eived after a programmed time, object <i>Failure</i> .	this is evaluated as a la	allure. The failure is	signalied
	of monitoring "Receive group ac	dress cyclically"		
2, 4,	Send/receive telegram	Device xx	1 Bit EIS1	C, R, T,
			DPT 1.001	Upd
200				
	eject cyclically polls an object as ponse telegram. If no telegrams			
	ed as a failure. The failure is sig			5 15
	of monitoring "Poll group addres			
202	Block connection to	Group 1	1 Bit EIS1	C, W
207	phy. addr.	Group 2	DPT 1.001	
 222		 Group 5		
	is object the cyclical polling of p	•	e devices of a grou	n is blocked
	ble polling			p lo blookou
	ck polling			
204	Block telegram reporting	Group 1	1 Bit EIS1	C, W
209		Group 2	DPT 1.001	
 224		 Group 5		
	is object the polling of the devic	•	roup address is bloc	 ked.
	ble polling			
	ck polling			
ab. 4: C	ommunication objects part 1			

Commissioning

	Function	Object name	Data type	Flags
205 210	Collective message	Group 1 Group 2	1 Bit EIS1 DPT 1.001	C, R, T
 225		 Group 5		
occurs	cyclically a status message of s if one of the devices to be mo oup will again be detected, the fault	nitored in the group can n	ot be detected. If a	all devices
1 : Fau	1			
227	Block connection to phy. addr.	All devices	1 Bit EIS1 DPT 1.001	C, W
Blocks	polling of all devices which are	e polled via the physical a	ddress (PA).	I
	able polling ck polling			
229	Block telegram reporting	All devices	1 Bit EIS1 DPT 1.001	C, W
Blocks	polling of all devices which are	e polled via a group addre	ess.	I
	able polling ck polling			
230	Collective message	All devices	1 Bit EIS1	C, R, T
			DPT 1.001	-, ,
	cyclically the status of all device			
device	s to be monitored in the system			
device 0 : No	es to be monitored in the system fault			
device	es to be monitored in the system fault			of the
device 0 : No 1 : Fau 231	s to be monitored in the system fault IIt	n can not be detected. Device	lure occurs if one of 1 Byte (non-EIS)	of the
device 0 : No 1 : Fau 231 The El	s to be monitored in the system fault It Status byte	n can not be detected. Device	lure occurs if one of 1 Byte (non-EIS)	of the
device 0 : No 1 : Fau 231 The El	s to be monitored in the system fault llt Status byte B Monitoring Unit sends inform	n can not be detected. Device nation about the different p	lure occurs if one of 1 Byte (non-EIS)	of the
device 0 : No 1 : Fau 231 The El Bit-by-	s to be monitored in the system fault llt Status byte B Monitoring Unit sends inform -bit coding:	n can not be detected.	lure occurs if one of 1 Byte (non-EIS) fooll states to this one of the states to the	of the
device 0 : No 1 : Fau 231 The El Bit-by- Bit 0:	s to be monitored in the system fault It Status byte B Monitoring Unit sends inform -bit coding: The cyclical polling of device	n can not be detected. Device nation about the different p ces is interrupted by pollir address is blocked via ar	Iure occurs if one of 1 Byte (non-EIS) pooll states to this of ng via an object. n object.	of the
device 0 : No 1 : Fau 231 The El Bit-by- Bit 0: Bit 1:	s to be monitored in the system fault It Status byte B Monitoring Unit sends inform -bit coding: The cyclical polling of devic The polling via the physical The polling via the group ac	n can not be detected. Device nation about the different p ces is interrupted by pollir address is blocked via ar	Iure occurs if one of 1 Byte (non-EIS) pooll states to this of ng via an object. n object.	of the
device 0 : No 1 : Fau 231 The El Bit-by- Bit 0: Bit 1: Bit 2: Bit 3-7	s to be monitored in the system fault It Status byte B Monitoring Unit sends inform -bit coding: The cyclical polling of devic The polling via the physical The polling via the group ac	n can not be detected.	Iure occurs if one of 1 Byte (non-EIS) pooll states to this of ng via an object. n object.	of the
device 0 : No 1 : Fau 231 The El Bit-by- Bit 0: Bit 1: Bit 2: Bit 3-7	s to be monitored in the system fault It Status byte B Monitoring Unit sends inform -bit coding: The cyclical polling of device The polling via the physical The polling via the group action The po	n can not be detected.	Iure occurs if one of 1 Byte (non-EIS) pooll states to this of ng via an object. n object.	of the
device 0 : No 1 : Fau 231 The El Bit-by- Bit 0: Bit 1: Bit 2: Bit 3-7 A code 232	s to be monitored in the system fault It Status byte B Monitoring Unit sends inform -bit coding: The cyclical polling of devic The polling via the physical The polling via the group ac ': Not in use (=0) e table for the status byte can b	Device ation about the different p ces is interrupted by pollir address is blocked via ar ddress is blocked via an o be found in section 4.1. Device	Iure occurs if one of Iure occurs if one occurs Iure occurs if occurs if one occurs Iure occurs if occurs if occurs if occurs Iure occurs if occurs if occurs if occurs if occurs if occurs Iure occurs if occurs Iure occurs if occurs if occurs	Df the C, R, T bject.
device 0 : No 1 : Fau 231 The El Bit-by- Bit 0: Bit 1: Bit 2: Bit 3-7 A code 232 The El This te EUB/S	s to be monitored in the system fault It Status byte B Monitoring Unit sends inform -bit coding: The cyclical polling of devic The polling via the physical The polling via the group ac ': Not in use (=0) e table for the status byte can b	Device Device Device Device Des is interrupted by pollir address is blocked via ar ddress is blocked via an o be found in section 4.1. Device al telegrams with the value le by other devices for mo ith the value "1" is sent cy	Iure occurs if one of Iure occurs if one of Intervention Intervention <	C, R, T bject. C, R, T

Tab. 4: Communication objects part 2

Appendix

4 Appendix

4.1 Status byte – code table

0 Status value	Hexadecimal value	Monitoring via the group address telegram is blocked	Monitoring via the physical address is blocked	The cyclical polling of devices is interrupted by polling via an object
St		Bit 2	Bit 1	Bit 0
	00			
1	01			
2	02			
3	03			
4	04			
5	05			
6	06			
7	07			

Tab. 5: Status byte

If the value of the status byte changes, it is sent.

4.2 Directory of drawings

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4.3 Directory of tables

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4.4 Ordering details

Designation			bbn 40 16779	Price group	Unit weight 1 pc.	Pack unit
	Short designation	Order No.	EAN		[kg]	[Pcs]
EIB Monitoring Unit, MDRC	EUB/S 1.1	2CDG 110 066 R0011	64991 9		26	0.1

Tab. 6: Ordering information



Your EIB / KNX-Partner

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