2600 AP
Telecommunication interface

Contents

General Function

Hint: This operating instruction is valid from software-version 5.0.

The TC is a telecontrol for switching devices connected to the TC via the telephone network. The state of these outputs will be saved during a power failure. In addition it will send alarm messages to chosen parties (see phone numbers for alarm) from 4 alarm inputs (M1 to M4).

Additionally, when connected to the EIB, up to 6 device functions can be controlled and 2 EIB-alarms can be processed.

A local alarm will be set, if the alarm messages have not been confirmed.

The controlling will either be performed with a DTMF-telephone DTMF = Dual-tone multi-frequency or with a DTMF pocket dialler (available as accessory).

If an answering machine is being used at the same subscriber line as the TC, either the answering machine or the TC can be selected at incoming calls.

Individual user data are easy to program.

The operation is supported by texts on the 16 character and 2 lines LCD and by announcements. The display messages can be set to 6 different languages.

Messages will be sent to the called parties through announcements. The amount of alarm calls can be set. The announcements can be individually recorded by the user. In order to do this, the handset (option) with the 4-way RJ-connector has to be inserted in the outlet (see page 6 or 8).

The examples shown in chapter Function will explain the operation.

Connection

Wall Mounting

The TC must be installed in dry areas with ambient temperatures between -5 °C and + 45 °C, preferably, close to a telephone jack.

The TC will be delivered with two dowels and two screws. Easy wall mounting is, therefore, possible.

1   Mark the drill holes perpendicular adjusted at a distance of 17.5 cm.

2   Drill two holes (6 mm diameter) and insert the dowels.

3   Tighten the upper screw until its screwhead sticks out about 5 mm.

4   Hang the TC with the upper mounting support in the screw.

5   Pull down the terminal screw cover.

6   Tighten the lower screw in the terminal screw area.

17.5 cm
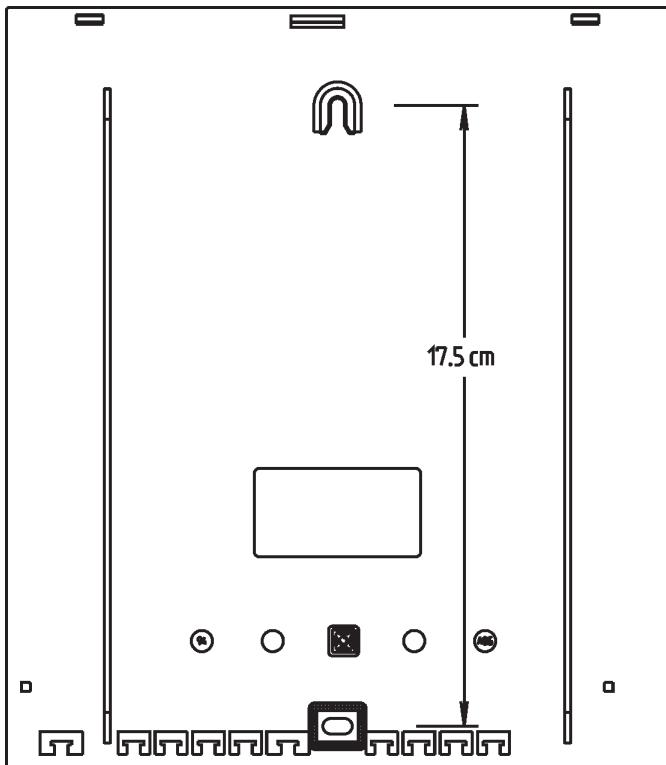
**Connection of the
Power Supply**

Terminal screws for external
power supply
12 V DC or 24 V DC.

S3
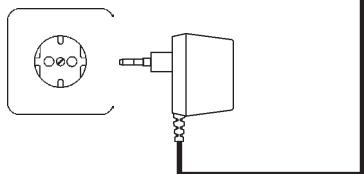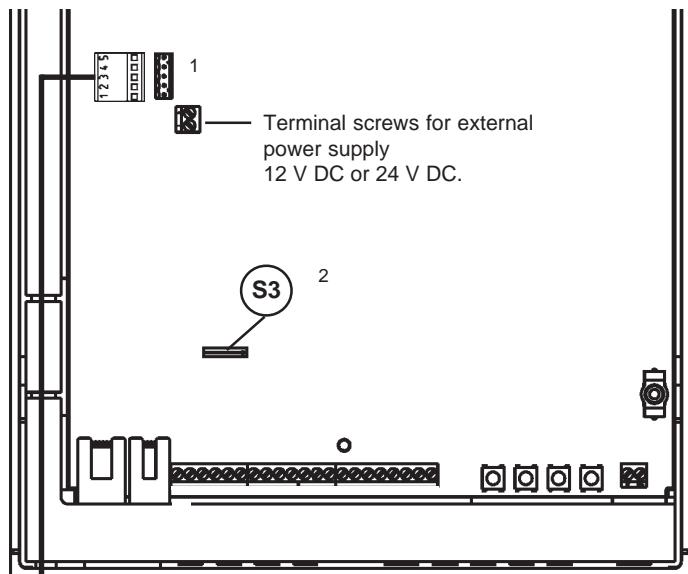
[1] At external power supply
(12 V DC oder 24 V DC) of
the TC the plug power supply
must not be inserted.

[2] at external 12 V DC power
Supply the jumper S3 must
be closed, at delivery state
the jumper is open.

Terminal Screw Assignment
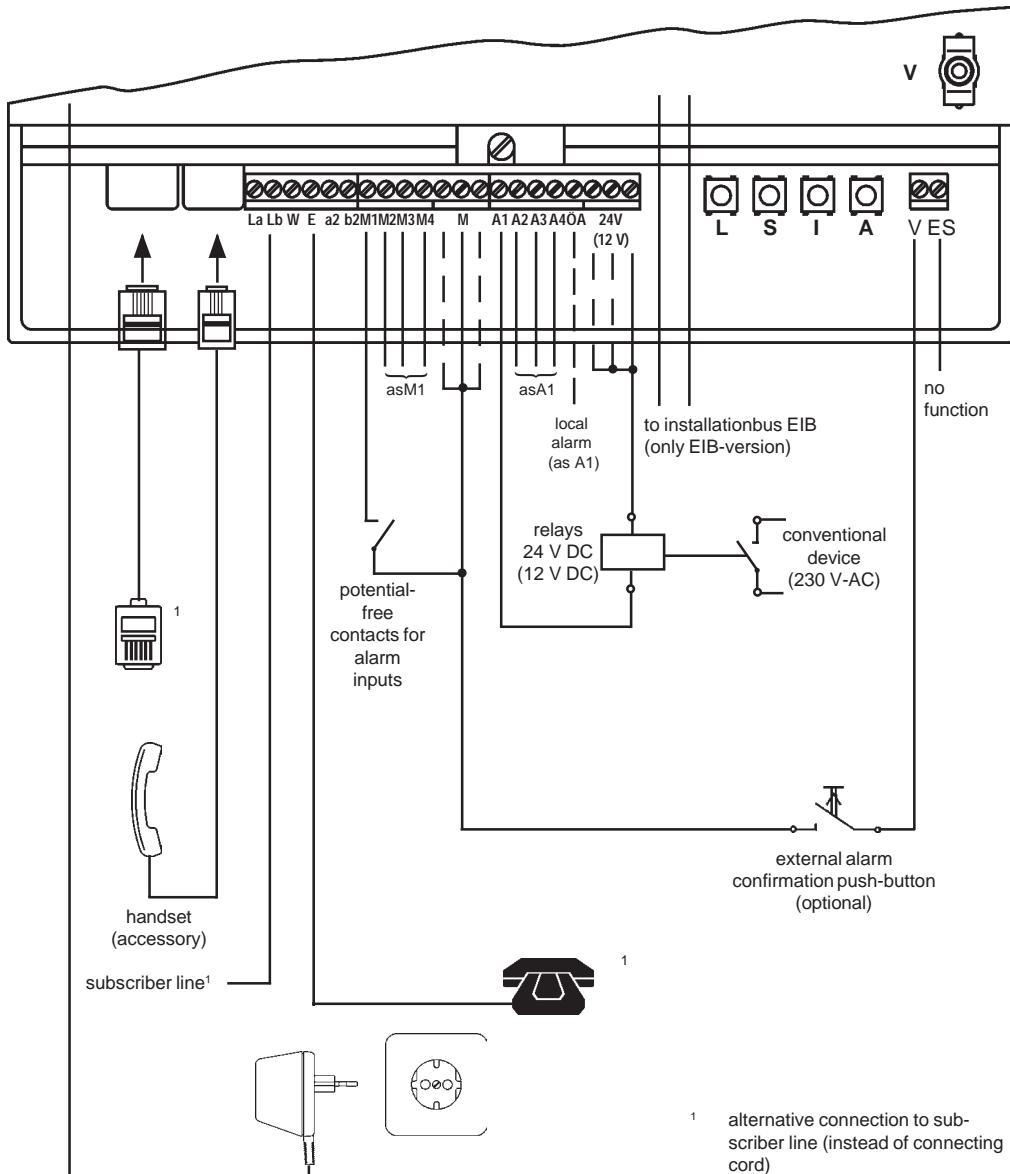
La Lb W E a2 b2 M1 M2 M3 M4   M   A1 A2 A3 A4 ÖA   24V (12 V)

L   S   I   A   V ES

V

asM1

asA1

local alarm (as A1)

to installationbus EIB (only EIB-version)

no function

relays 24 V DC (12 V DC)

conventional device (230 V-AC)

potential-free contacts for alarm inputs

external alarm confirmation push-button (optional)

handset (accessory)

subscriber line[1]

[1] alternative connection to subscriber line (instead of connecting cord)

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Operation with Current Impulse Switches

The TC has been developed for switching on and off electrical devices by use of the telephone. Each switching procedure with the telephone will be stored in the TC, so that if the state of the connected devices is requested, there will be an announcement whether or not the devices are switched on or off.

In some cases the installation of additional push-buttons might be useful or necessary. In the basic settings the TC can not recognize a change of the state performed by a push-button. By closing the jumper **S1** (see diagram) the outputs **A3** and **A4** will be configured for the use with current impulse switches. At the same time the alarm inputs **M3** and **M4** will be set to report the correct state of the current impulse switches. For this reason current impulse switches with two make or switchover contacts should be used in order to report the actual state of the current impulse switches at the alarm input with one of these make or switchover contacts. This is important because the announcements refer to the state of the alarm inputs (M3 and M4) and not directly to the state of the outputs (A3 and A4).

The outputs **A1** and **A2** and the local alarm **ÖA** remain unchanged for switching exclusively with the TC.

The alarm inputs **M1** and **M2** are still available, for the connection of potential free alarm contacts.

The terminal assignment when using current impulse switches is shown on the following page.

When using the plug power supply RNG 3, the voltage at the outputs is 24 V. If an external power supply is being used (12 V DC or 24 V DC), the according voltage at the outputs is available.

S1 = closed: Current impulse switch outputs
S1 = open: No current impulse switch outputs
S2 = closed: No EIB
S2 = open: EIB
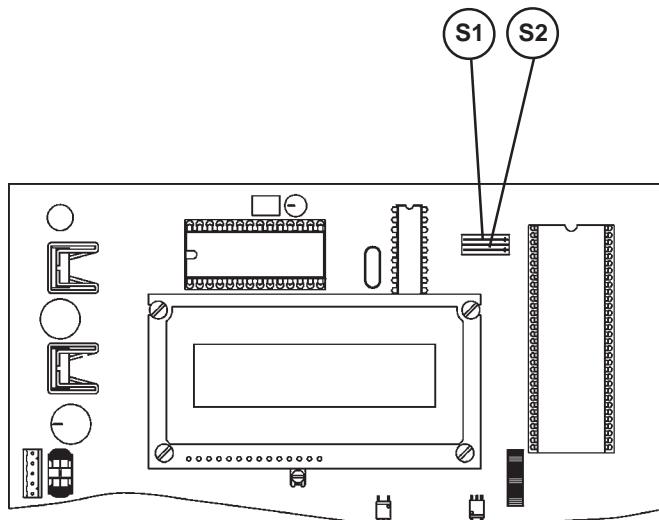
Terminal Screw Assignment at Use with Current Impulse Switches
(Report of State with M3 and M4)

V

La Lb W E a2 b2M1M2M3M4 M A1 A2 A3 A4 OA 24V (12 V)

L S I A V ES

as page 6

as M3

as page 6

local alarm (as A1)

to installationsbus EIB (only EIB-version)

no function

as A3

conventional device (230 V-AC)

current impuls-switch 24 V DC (12 V DC)

push-button for manual switching

external alarm confirmation button (optional)

handset (accessory)

subscriber line[1]

[1] alternative connection to subscriber line (instead of connecting cord)

8
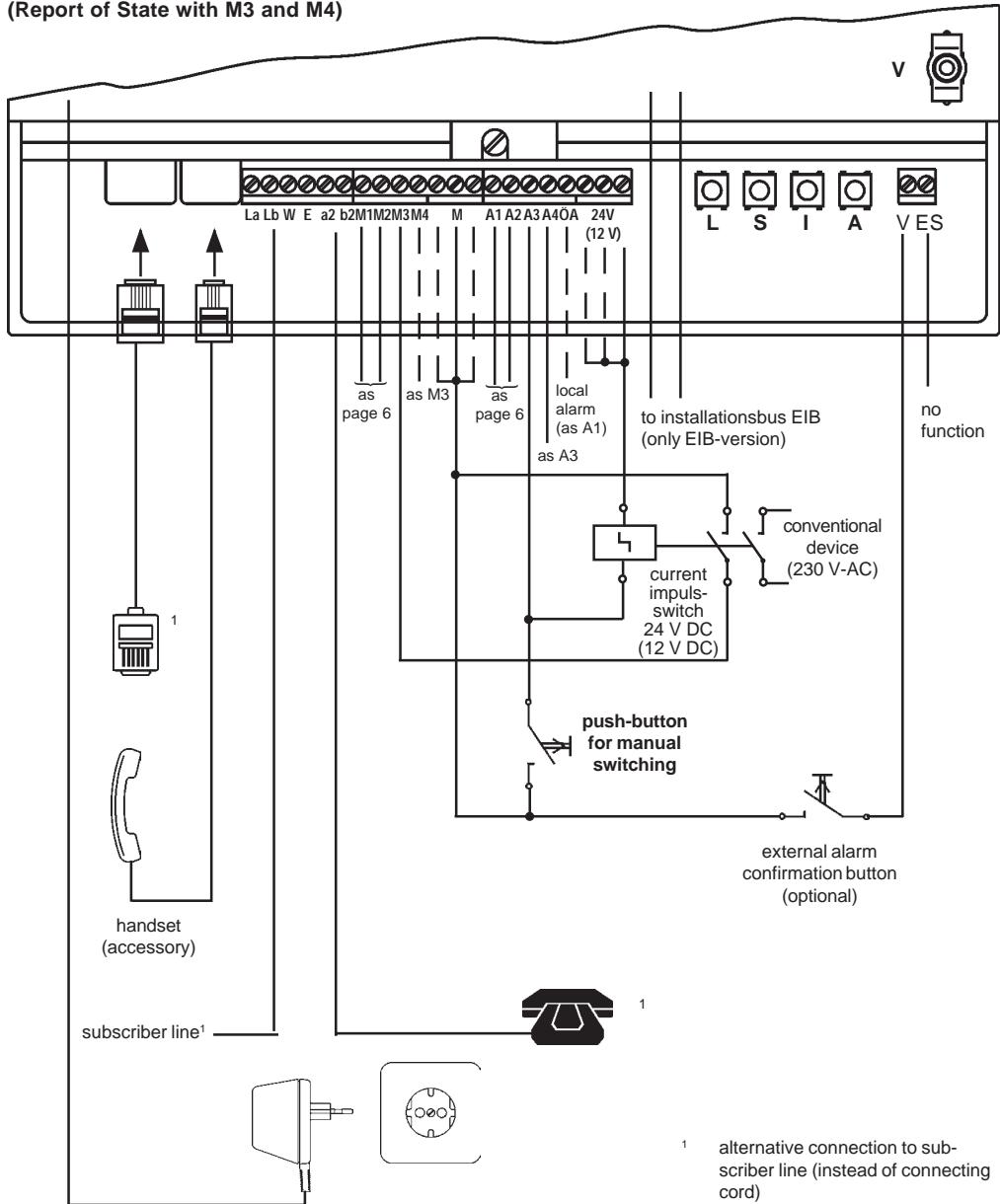
Putting into Operation

Installation

Before working on the installation, unplug the power supply.

Changes at the TC are only possible if done within the limits and according to the description in this manual.

The installation must be carried out professionally.

Please take into account, that the performance of the TC with PABXs can be improved, in case of a power failure, when the TC is installed before the PABX.

Putting into Operation

1   Connect the conventional devices (A1 to A4 and ÖA), according to the diagram on page 6 or 8.

2   Plug power supply into 230 V outlet or connect the external power supply at "+" and "-". After the connection with the power supply the display will show "TC x.x configuration".

3   Connect the subscriber line at LA and LB (ring and tip).

4   Do not connect answering machines or fax machines at the same subscriber line.

Now the TC is ready for operation.

The connection of the EIB devices has to be carried out according to the descriptions given by manufacturers.

Default Settings

Factory Settings

The TC will be delivered with the following settings:

- Programming: 0
- Activated at: 2 ringing signals
- Phone number 1:   none
- Phone number 2:   none
- Phone number 3:   none
- Code number: 0000
- Dialling method: DTMF
- Alarm calls: 12
- Language: English
- Announcement texts: are given (see page 31)
- S1:   open
- S2:   closed
- S3:   open

Conventional Devices

With the factory settings the TC has 5 outputs 24 VDC (12 VDC) available, at which 4 devices and one local alarm over 24 V relays can be connected. The outputs are short-circuit proof and allow each a maximum load of up to 50 mA, if being used with the shipped plug power supply RNG 3. At external 24 VDC or 12 VDC power supply the outputs will allow a maximum load of up to 500 mA.

The TC is equipped with a line control. About 40 seconds after an interruption of the telephone line, respectively, 15 seconds after a short circuit of the telephone line, the local alarm output will be set and "Line fault" will appear on the display. The alarm confirmation push-button will reset the local alarm output.

The alarm confirmation push-button is also accessible at the screw terminal block in order to be able to connect an external push-button. The screw terminals are marked with M and V.

Settings

The performance features of the TC can be set to accommodate the needs of the user. All settings will be saved in case of a power failure.

Before putting into operation for the first time, there are some necessary parameters to be programmed.

The settings will be done with the push-buttons in the terminal screw area. The push-buttons have - depending on the programming branch - different meanings.

Push-button	**L**	**S**	**I**	**A**	**V**
Parameter	Clear	Position	Increment	Confirmation	Escape
Texts	Playback	Stop	Record	Confirmation	Escape

Parameter

With push-button **A** you confirm, respectively, save the current settings on the display and automatically switch to the next parameter.

Every activation of push-button **I** changes the shown position of the cursor. The actual digit will increase by one or will change between 0 and 1 at digital states. During the programming of phone numbers for alarms, you can also program a 2 second pause with the push-buttons (P), outside line access with grounding (E) or a dial tone control (W).

Activation of push-button **S** allows the cursor to move to the next position to the right.

With the push-button **L** the shown values will be cleared (e.g. code number or phone numbers 1 to 3). After clearing, the cursor will be placed back to the first position.

The push-button **V** allows for interruption of the programming mode at all times. The TC will return back to the normal mode.

Texts

With push-button **A** you save the current settings and automatically switch to the next announcement.

The recording of texts will be started with push-button **I.**

Push-button **S** will stop the recording.

The push-button **L** will playback the last recorded announcement.

The push-button **V** allows for interruption of the programming mode at all times. The TC will return back to the normal mode.

Only parameters which have been confirmed with push-button *A* will be saved.

If a push-button is not pressed within 20 seconds, the TC will leave the programming mode. In the following procedures the display messages are shown as examples.

Programming Branch

The TC allows the programming of parameters (ringing signals until activation, phone numbers for alarm, code number, dialling method, alarm calls and language) and recording of new texts. Therefore, the programming branch must be selected before the actual input.

Operation	**Display**
	Active devices:
	–
Press **A** until display	Programming:
	0 Val.=0 Text=1
Select with **I** and/or confirm with **A**	Activated at
	2 ringing signals
or press **V**	
	Active devices:
	–

Settings

Ringing Signals until Activation

With this parameter one can program the number of ringing signals, maximum of 9, until the TC answers the phone call. Up until this point it is possible to answer the phone call at the telephone. If a "0" has been programmed, the TC can answer a phone call through a special procedure (s. page 28), alarms can still be sent. This setting is recommended for uses with answering machine.

<u>Operation</u>	<u>Display</u>
	Active devices:
	_
Press **A** until display	Activated at
	<u>2</u> ringing signals
Press **I** until the right digit appears	
	Activated at
	<u>5</u> ringing signals
Confirm with **A**	Phone no. 1:
	_
or press **V**	Active devices:
	_

Phone Numbers for Alarms

You can program a maximum of up to three 16-digit phone numbers, where occurring alarms should be sent (e.g. guard room). Phone number 1 will be called first. If the call is not confirmed within 1 minute with *, the TC will dial phone number 2. Only if the call is also not confirmed within 1 minute, phone number 3 will be dialled. This procedure will be repeated three times.

12 call establishment trials will be carried out altogether. If only two phone numbers are programmed, they will each be called six times. If confirmation does not occur then, the local alarm will be set and "No success" will appear on the display. If no phone number is programmed, the local alarm will immediately be switched on. During the programming of the phone numbers for alarms, you

can also enter PABX specific features, for instance, dialling pause between outside line access number and phone number (P), ground as outside line access (E)[1] or dial tone control (W). During an active dial tone control, the call will be disconnected, if no dial tone is recognized. The TC will then proceed with the next phone number.

Operation	Display
	Active devices
	_
Press **A** until display	Phone no. 1:
	_
Press **L** to clear or **I** until the right digit appears	Phone no. 1:
	0
Press **S** for the next position	Phone no. 1:
	0 _
Continue until the right number is displayed	Phone no. 1:
	0P4711
Confirm with **A** Same procedure as at phone number 1	Phone no. 2:
	_
	Phone no. 2:
	0P2355
Confirm with **A** Same procedure as at phone number 1	Phone no. 3:
	_
	Phone no. 3:
	58579
Confirm with **A**	Code number:
	0000
or press **V**	Active devices
	_

[1] In this rare case a special relay has to be installed and a connection to ground must be made at the terminal E.
For further information consult the manufacturer.

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Settings

Phone Numbers for Alarms

The phone number 1 can be changed from a distance by calling the TC. A DTMF-telephone or a DTMF pocket dialler is prerequisite. Instead of the last digit of the code number a "✳" has to be dialled and after three subsequent tones, the phone number has to be dialled.

Each digit has to be dialled within 4 seconds. For confirmation the user becomes an announcement of the programmed phone number after 4 seconds. If necessary, the phone number can be changed after the announcement. For PABXs a „#" for grounding

and a „✳" for a 2 second dialling pause can be programmed.

Example: (Precondition: code number 1234)

Operation	Announcement	Display
		Active devices
		–
Two ringing signals are sent	Here is the Telecontrol. Please dial the code number.	
Dial code number **1 2 3** ✳	♩ ♩ ♩	Phone no.
		–
Dial phone number 1 (e.g. 0✳4711)		
After 4 seconds	0, pause, 4, 7, 1, 1	Phone no. 0P471<u>1</u>
		Active devices
		–
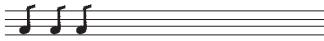
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Code Number

With this function you can change the default code number (0000) at any time. The code number must always contain 4 digits. It will be tested as a 4 digit block, in order to prevent manipulation. After three unsuccessful trials, the connection will be released automatically. The code number should be changed at least once a month, in order to increase additional access safety for your TC.

Operation	Display
	Active devices:
	_
Press **A** until display	Code number:
	0000
Press **L** to clear or press **I** until the right digit appears	Code number:
	1000
Press **S** for the next position	Code number:
	1000
Press **I** until the right digit appears	Code number:
	1200
Press **S** for the next position	Code number:
	1200
Press **I** until the right digit appears	Code number:
	1230
Press **S** for the next position	Code number:
	1230
Press **I** until the right digit appears	Code number:
	1234
Confirm with **A**	Dialling method:
	1 Pul.=0 DTMF=1
or press **V**	Active devices:
	_

Special Function:

If the code number "1111" is programmed, the code number will not be needed at incoming external calls. After the message "Here is the TeleControl, please dial a digit", devices can be switched immediately.

Settings

Dialling Method

You can program the dialling
method. If you are not sure about
the dialling method of your
telephone line, ask your
telephone company.

Operation	**Display**
	Active devices
	_
Press **A** until display	Dialling method:
	<u>1</u> Pul.=0 DTMF=1
Press **I** for Pulse dialling	Dialling method:
	<u>0</u> Pul.=0 DTMF=1
Confirm with **A**	
or press **V**	Active devices
	_

Settings

Alarm calls

The amount of the alarm calls carried out by the TC can be set from "0" up to "12".

The three programmed phone numbers will be called one after the other until the amount of alarm calls has been reached or the alarm has been confirmed from one of the called parties.

Example:

When alarm is set to 5, calling sequence is as follows:

Phone number 1, phone number 2, phone number 3, phone number 1 and phone number 2 will be called one after the other.

Operation	Display
	Active devices
	_
Press **A** until display	Alarm calls:
	1<u>1</u>
Press **I** until the right digit appears	Alarm calls:
	0<u>7</u>
Confirm with **A**	Language:
	English
or press **V**	Active devices
	_

Settings

Language

The language of the display messages can be set to either English, Spanish, French, Dutch, Polish or German.

Hint:

The speech announcements will not be changed with this setting.

Operation	Display
	Active devices
	_
Press **A** until display	Language:
	English
Press **I** until the appropriate language appears	Lingua:
	Espanol
Confirm with **A** or press **V**	Aparatos activos

Recording of Individual Texts

Instead of the given announcements, you can use your own personal announcement, in order to allow the TC to answer with your name or telephone number. You can change all or only some of the announcements. For each announcement you have ca. 3 seconds available for recording.

The display shows the corresponding text and a bar, which will get shorter during recording and playback to indicate how much time is left for your announcement. For recording you have to insert the handset (option) in the marked outlet, and speak into the microphone. You

start the recording with push-button **I** and stop it with **S**. You can playback the announcement with L. If you are satisfied with your recording, you press push-button **A** for confirmation and storing of your text. For texts which need to be changed, see the following chart.

Operation	Display
	Active devices:
	–
Press **A** until display	Programming:
	0̲ Val=0 Text=1
Press **I** until the right digit appears	Programming:
	1̲ Val=0 Text=1
Press **A**	Announcement
	– – – – – – – – –
Press **I** for recording	Announcement
	– – – – – – – – –
Make announcement	Announcement
	– – – – – –
Press **S** for stop	Announcement
	– –
Press **L** for playback	Announcement
	– – – – – – – – –
Press **A**	Code number-text:
	– – – – – – – – –
Same procedure as with announcement	Code number-text:
	– – – – – – – – –
Press **A**	Error-text:
	– – – – – – – – –
Same procedure as with announcement	Error-text:
	– – – – – – – – –
Press **A**	Device select:
	– – – – – – – – –
Same procedure as with announcement	Device select:
	– – – – – – – – –

Settings

Press **A**	Confirmation:
	_ _ _ _ _ _ _ _ _ _
Same procedure as with announcement	Confirmation:
	_ _ _ _ _ _ _ _ _ _
Press **A**	Device-1-On-Text:
	_ _ _ _ _ _ _ _ _ _
Same procedure as with announcement	Device-1-On-Text:
	_ _ _ _ _ _ _ _ _ _
Press **A**	Device-1-Off-Text:
	_ _ _ _ _ _ _ _ _ _
Same procedure as with announcement	Device-1-Off-Text:
Repeat for up to 4 devices	_ _ _ _ _ _ _ _ _ _
Press **A**	Alarm-1-Text:
	_ _ _ _ _ _ _ _ _ _
Same procedure as with announcement	Alarm-1-Text:
	_ _ _ _ _ _ _ _ _ _
Repeat for up to 4 alarm inputs	
Press **A**	EIB-1-On-Text:
	_ _ _ _ _ _ _ _ _ _
Same procedure as with announcement	EIB-1-On-Text:
	_ _ _ _ _ _ _ _ _ _
Press **A**	EIB-1-Off-Text:
	_ _ _ _ _ _ _ _ _ _
Same procedure as with announcement	EIB-1-Off-Text:
	_ _ _ _ _ _ _ _ _ _
Repeat for up to 6 EIB-devices	
Press **A**	EIB-Alarm-1-Text
	_ _ _ _ _ _ _ _ _ _
Same procedure as with announcement	EIB-Alarm-1-Text
	_ _ _ _ _ _ _ _ _ _
Repeat for 2 EIB-devices	
Press **A**	Active devices:
	_

Programming of the EIB-Bus Coupling Unit

The installation and programming of the EIB-Bus Coupling Unit takes place with a special EIB Tool Software (ETS). Further information can be obtained from the appropriate document. In the ETS the TC can be found in the product family

Symbol:　　　　

Product family: communication

Product type: modem

Function at Power Failure

During a power failure or at un-plugged power supply, the set-tings will be saved and are at ones disposal after the power re-turns, respectively, the power supply is plugged in. The display will show "TC x.x configuration". The state of the conventional out-puts will be saved during a power failure and will be restored after the power returns. At a power failure all devices which have been activated from the TC will be switched off, all other devices remain in their state.

The state of the outputs A3 and A4 will not be changed at acti-vated current impulse mode.

By using an emergency power supply, the effects of a power fail-ure can be avoided.

Function

Switching of Conventional Devices

The device number can be placed between 1 and 4. For complete information about the state of the devices, the "**#**" must be dialled (see page 24 and the overview on page 29).

Preconditions for the example: (Factory setting; devices 1 and 4 are switched on, and devices 2 und 3 are switched off)

<u>Operation</u>	<u>Announcement</u>
Two ringing signals are sent	Here is the Telecontrol. Please dial the code number.
Dial code number **0 0 0 0** [1]	Please dial the device number.
Dial digit (e.g. **1**)	The device 1 is switched off.
The switching of devices occurs in the following manner: By dialling the device number, the device will alternately be switched on and off.	If an alarm is set during activation, it will be announced directly. After the confirmation with ✳ the operation can be continued.

Correction of wrong code number

<u>Operation</u>	<u>Announcement</u>
Two ringing signals are sent	Here is the Telecontrol. Please dial the code number.
Dial code number **1 3 4 5** [2]	The code number is wrong. Please dial the code number.
Dial code number **0 0 0 0**	Please dial the device number.
Dial digit (e.g. **2**)	The device 2 is switched on.

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[1] If the TC is being used within a PABX, it might be necessary to switch the PABX transparent to DTMF- signals, so that the incoming DTMF- signals will not be processed from the PABX. For further details see your operation manual from PABX.

[2] After three faulty trials the connection will be released.

Function

Controlling the State of the Devices

Operation	Announcement
Two ringing signals are sent	Here is the Telecontrol. Please dial the code number.
Dial code number **0 0 0 0**	Please dial the device number.
Dial **#** for the state of devices	The device 1 is switched on. The device 2 is switched off. The device 3 is switched off. The device 4 is switched on ...
or	Please dial the device number.
Dial **#** and dial device number x within 2 seconds	The device x is switched on/off.

Please dial the device number. |

Directly after the announcement about the state of devices, the devices can be switched.

Switching of EIB Device Functions

EIB device functions are activated analogous to the conventional devices, however, they begin with the device number 5 for the first device at the installation bus EIB. Six EIB devices (device numbers 5, 6, 7, 8, 9, and 0) can be switched with this TC.

Function

Sending of Messages

The four conventional alarm inputs (at use with current impulse switches only at alarm input 1 and 2) and two EIB device functions 7 and 8 will send off an alarm message to the programmed phone number. The message will be directly announced at an existing call of the TC. (Preconditions for the examples: factory setting; phone number 1: 1111; phone number 2: 2222; phone number. 3: 3333, device 1,2 and 4 are switched on)

Operation	Announcement	Display
		Active devices 12 4
TC dials phone number 1		Dialling phone no. 1 1111
	Here is the Telecontrol. The EIB-Alarm 1 has been activated.	
Subscriber does not confirm the alarm.		
After about 1 minute: TC dials phone number 2		Dialling phone no. 2 2222
	Here is the Telecontrol. The EIB-Alarm 1 has been activated.	
Subscriber confirms with ✳	The alarm has been confirmed.	Alarm confirmed: 2222
The EIB-device, which set the alarm, will be set back.		
	Here is the Telecontrol. Please dial the code number.	
Dial code number **0 0 0 0**	Please dial the device number.	
Dial digit (e.g. **3**)	The device 3 is switched on.	
After return: Press push-button **V** on the TC to reset the display		Active devices 1234

If the alarm from subscriber 1 was not confirmed after one minute, the TC will dial the second phone number and if necessary, after another minute phone number 3.

If no device has to be switched, the subscriber can end the call with ✳ instead of a dialling the code number.

If all 12 call establishment trials stay unconfirmed, the local alarm will be set.

An alarm can also be confirmed directly at the TC (push button V). Then, the display will show: "Alarm confirmed: at TC".

Function

Answering machine mode

If the call acceptance "Activated at x ringing signals" is set to "0", the TC will not answer incoming calls. However, if the caller hangs up after a ringing sequence, waits for 10 seconds and calls again within 60 seconds, the TC will answer the incoming call after the first ringing signal. With this procedure, either the answering machine or the TC can be selected.

Operation	Announcement	Function
A ringing sequence is sent		The TC is not answering the phone call.
The caller hangs up		
The caller calls again within 60 seconds		
A ringing sequence is sent	Here is the Telecontrol. Please dial the code number.	
Alternatively:		
The TC-subscriber-line will be called		
After the xth[1] ringing sequence		The answering machine is answering the phone call.

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[1] x: Amount of ringing signals to activate the answering machine

Hints for Operation

**Overview of the Functions and
Function Numbers**

<u>Function number</u>	<u>Function</u>
1	Switching of device 1
2	Switching of device 2
3	Switching of device 3
4	Switching of device 4
5	Switching of EIB-function 1
6	Switching of EIB-function 2
7	Switching of EIB-function 3
8	Switching of EIB-function 4
9	Switching of EIB-function 5
0	Switching of EIB-function 6
✳	Confirmation/call release
#	Complete state request (after 2s)
#1	State request device 1
#2	State request device 2
#3	State request device 3
#4	State request device 4
#5	State request EIB-function 1
#6	State request EIB-function 2
#7	State request EIB-function 3
#8	State request EIB-function 4
#9	State request EIB-function 5
#0	State request EIB-function 6

Hints for Operation

Overview of the Display Texts

Dialing phone no –	Device select	EIB-1-Off-Text:
Alarm confirmed:	Confirmation	EIB-2-On-Text:
TC x.x configuration	Device-1-On-Text	EIB-2-Off-Text:
Active devices: -	Device-1-Off-Text	EIB-3-On-Text:
Programming: 0 Val=0 Text=1	Device-2-On-Text	EIB-3-Off-Text:
Activated at 2 ringing signals	Device-2-Off-Text	EIB-4-On-Text:
Phone no. x: –	Device-3-On-Text	EIB-4-Off-Text:
Code number 0000	Device-3-Off-Text	EIB-5-On-Text:
Dialling method 1 Pul.=0 DTMF=1	Device-4-On-Text	EIB-5-Off-Text:
Alarm calls: 11	Device-4-Off-Text	EIB-6-On-Text:
Language: English	Alarm-1-Text:	EIB-6-Off-Text:
Announcement	Alarm-2-Text:	EIB-Alarm-1-Text
Code number-Text:	Alarm-3-Text:	EIB-Alarm-2-Text
Line fault	Alarm-4-Text:	No success
Error-Text:	EIB-1-On-Text:	

**Overview of the given
Announcement Texts**

Message-type	Announcement	Your Announcement
Announcement:	Here is the Telecontrol.	_____
Code number:	Please dial the code number.	_____
Error-Text:	The code number is wrong.	_____
Device select::	Please dial a digit.	_____
Confirmation:	The alarm has been confirmed.	_____
Device-1-On-Text:	The device 1 is turned on.	_____
Device-1-Off-Text:	The device 1 is turned off.	_____
Device-2-On-Text:	The device 2 is turned on.	_____
Device-2-Off-Text:	The device 2 is turned off.	_____
Device-3-On-Text:	The device 3 is turned on.	_____
Device-3-Off-Text:	The device 3 is turned off.	_____
Device-4-On-Text:	The device 4 is turned on.	_____
Device-4-Off-Text:	The device 4 is turned off.	_____
Alarm-1-Text:	The alarm 1 has been activated.	_____
Alarm-2-Text:	The alarm 2 has been activated.	_____
Alarm-3-Text:	The alarm 3 has been activated.	_____
Alarm-4-Text:	The alarm 4 has been activated.	_____
EIB-1-On-Text:	The EIB-device 1 is turned on.	_____
EIB-1-Off-Text:	The EIB-device 1 is turned off.	_____
EIB-2-On-Text:	The EIB-device 2 is turned on.	_____
EIB-2-Off-Text:	The EIB-device 2 is turned off.	_____
EIB-3-On-Text:	The EIB-device 3 is turned on.	_____
EIB-3-Off-Text:	The EIB-device 3 is turned off.	_____
EIB-4-On-Text:	The EIB-device 4 is turned on.	_____
EIB-4-Off-Text:	The EIB-device 4 is turned off.	_____
EIB-5-On-Text:	The EIB-device 5 is turned on.	_____
EIB-5-Off-Text:	The EIB-device 5 is turned off.	_____
EIB-6-On-Text:	The EIB-device 6 is turned on.	_____
EIB-6-Off-Text:	The EIB-device 6 is turned off.	_____
EIB-Alarm1-Text:	The EIB-alarm 1 has been activated.	_____
EIB-Alarm2-Text:	The EIB-Alarm 2 has been activated.	_____

Technical Data

Dimensions
LxWxH (in mm): 220 x 180 x 40
Weight: 570 g
Length of power supply cord: 1,6 m
Color: RAL 9010
Material: ABS

Temperature
Operation temperature: -5 °C bis 45 °C
Storage temperature: -25 °C bis 70 °C

Protection class: IP 30 according to EN 60529

4 conventional outputs: 24 V DC, 50 mA *)
1 local alarm output: 24 V DC, 50 mA
(all short circuit proof)

4 conventional alarm inputs for potential free contacts
(activation time > 50ms)
Ringing frequency detection: 20 Hz to 60 Hz

Power consumption
With plug power supply: appro. 4,2 W
With external 12 V power supply: appro. 0,6 W

Plug power supply
Weight: 500 g
Input voltage: 230 V AC (+6%, -14%), 50 Hz
Protection class: IP 20 according to EN 60529
Class: II according to EN 60536

*) at use of the plug power
   supply RNG 3

Technical modifications reserved.

Gewährleistung

Herstellergarantie

Für unsere Geräte leisten wir Gewähr - unbeschadet der Ansprüche des Endabnehmers aus Kaufvertrag gegenüber dem Händler - wie folgt:

1. Unsere Gewährleistung umfasst die Nachbesserung oder Neulieferung eines Gerätes, wenn die Funktionsfähigkeit des Gerätes aufgrund nachweisbarer Material- oder Fertigungsfehler beeinträchtigt oder nicht gegeben ist.

2. Die Anspruchsfrist richtet sich nach unseren allgemeinen Verkaufsbedingungen. Die Einhaltung der Anspruchsfrist ist durch Nachweis des Kaufdatums mittels beigefügter Rechnung, Lieferschein oder ähnlicher Unterlagen zu belegen.

3. Der Käufer trägt in jedem Fall die Transportkosten.

Bitte schicken Sie das Gerät portofrei an unsere zentrale Kundendienststelle:

Albrecht Jung GmbH & Co. KG
Service-Center
Kupferstraße 17 - 19
D-44532 Lünen

Instandsetzung

Bitte beachten Sie:
Bei einer evtl. Instandsetzung wird der Urzustand wieder hergestellt. Individuell programmierte Rufnummern und Ansagen sollten Sie sich deshalb notieren, da sie bei der Instandsetzung gelöscht werden.

Herstellererklärung

Wir (Albrecht Jung GmbH & Co. KG) erklären, dass der TC mit den "Grundlegenden Anforderungen" und anderen relevanten Bestimmungen der **Richtlinie 1999/5/EG des europäischen Parlaments und des Rates vom 09.03.99 über Funkanlagen und Telekommunikationsendeinrichtungen und die gegenseitige Anerkennung ihrer Konformität** (R&TTE) übereinstimmt.

Der TC wird im Rahmen eines umfassenden Qualitätssicherungssystems nach ISO 9001 mit der Registrier-Nr. **886** gefertigt.

Die Prüfung der "Grundlegenden Anforderungen" der **R&TTE-Richtlinie** bzw. des **FTEG** bezüglich EMV und Sicherheitsanforderungen erfolgen im von der CETECOM ICT Services GmbH (Benannte Stelle mit der EU-Kenn-Nr. **0682**) unter der Nummer **Q812412N** zertifizierten Testlabor.

Die erforderlichen Konformitätsbewertungsverfahren nach **CTR 21** für den TC wurden durchgeführt.

EIB-Zulassung

Der TC ist von der EIBA sc unter der Nummer **73/680/94** zertifiziert.