



Rutenbeck

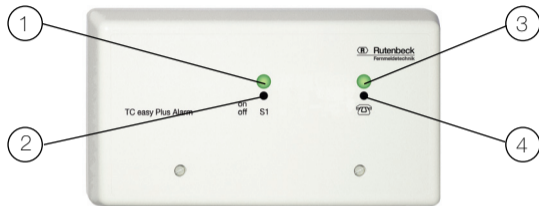
Fernmeldetechnik



TC easy Plus Alarm

Operating Instructions

Overview



- 1 LED S1
- 2 pushbutton S1
- 3 LED "automatic call acceptance"
- 4 pushbutton "automatic call acceptance"

Accessory

Plug power supply 12 V

optional

Emergency power supply
NV 2 TC GB 700 900 139

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General

The TC easy Plus Alarm – from now on known as TC device – is a remote switching and alarming device. It allows the switching of one electrical device and can send off two alarm messages via the telephone network. Each alarm input can automatically dial three phone numbers and notify with a voice message, if an alarm input has been activated by a connected contact. Both alarm inputs can separately be activated or deactivated.

The switching takes place with DTMF-signals (DTMF= Dual-tone multi-frequency). This can either be performed with a DTMF-telephone or a DTMF pocket dialer. Individual user data are easy to program by a telephone call. The operation is supported by announcements. You can choose between three languages. The TC device is placed in a housing for surface mounting. The switching functions can be carried out via the tele-

phone line as well as with the built-in pushbuttons (s. page 8).

They will be protected by use of a 4-digit code number.

All settings and switching states of the outputs will be saved during a power failure and be restored after return of power.

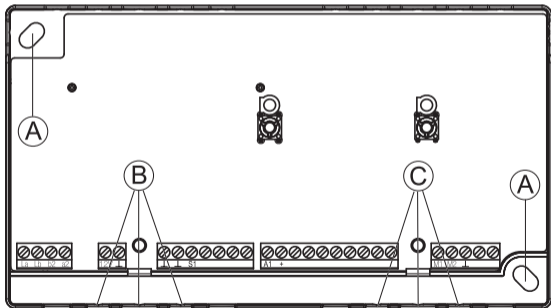
Installation

Wall Mounting

The TC device can be mounted directly on the wall.

- 1 Attach the base plate at the upper left and lower right corner with dowels and screws. The screw terminals of the printed circuit board must show to the bottom. Slotted holes allow an exact adjustment (see figure, A). There are performed receptacles for holding i.e. the strain relief of the plug power supply cord (see figure, B).
- 2 Lead the necessary installation cable for the device

A1 through the other entry points of the base plate (see figure, C).

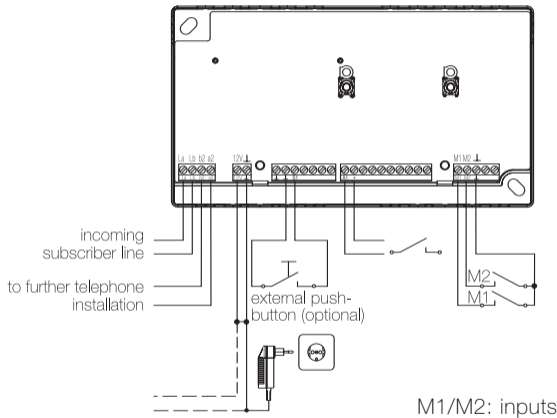


Putting into Operation

- 1 Connect the subscriber line at the screw terminals La and Lb (ring and tip). Additional telephone jacks can be connected to terminal a2 and b2 (see page 8).
The TC device can also be connected at an extension of a telephone system.
- 2 Connect the black wire of the plug power supply with "⏚" and the red/black wire with "12V" (see page 8). If the wires are cross-connected the device will not be damaged but simply will not operate.
- 3 The wiring for the device must be carried out according to the diagram on page 8.
- 4 Install the equipment to be switched, respectively, the control relays as shown in the connection diagram on page 8.
- 5 Insert the plug power supply in the 230-V-power outlet.

Installation

Connection of Telephone Line, Plug Power Supply, Inputs, Output and Pushbutton



Hint:




The external pushbutton for local operation is connected electrically parallel to the integrated pushbutton S1.



Attention:

Use an appropriate fuse for the circuit according to the max. contact load (see Technical Data, page 27)

Function

The automatic call acceptance will be activated with the pushbutton . The assigned LED  lights up. The device seizes the telephone line after reception of the programmed number of ringing signals (see page 13 and 19). With the pushbutton S1 devices connected to the output can be switched on or off. The assigned LED S1 indicates the switching state (LED lit = on). The LED  starts blinking after receiving the first ringing signal.

Operation

After calling and seizure of the telephone line, the language selection (at the first call) as well as correct entry of the code number the state of the connected device can be checked via the telephone with DTMF (#), switch the device on or off (0, 1, 6) or modify the individual settings of the TC device (9) – like alarm phone numbers, own phone number, answering machine mode, ringing signals, code number, number of dial attempts or language.

State Request

Call the TC device and dial the code number.



"Please dial a device number."



input state
10 switch off device
11 switch on device
16 impulse mode (1 s)
1# state request



"Impulse mode. The device 1 is turned off/on."

Operation

General Settings

Call the TC device and dial the code number.



"Please dial a device number."



setting digit
9 menu settings
★ disconnection



settings- or state announcement. With ★ disconnection without announcement.

Menu Settings

Call the TC device and dial the code number and the digit "9" for the selection of the menu settings.



menu item

- 1 input 1
 - 1 alarm phone no. 1
 - 2 alarm phone no. 2
 - 3 alarm phone no. 3
 - 4 (de-)activate
- 2 input 2
 - 1 alarm phone no. 1
 - 2 alarm phone no. 2
 - 3 alarm phone no. 3
 - 4 (de-)activate
- 3 own phone number
- 4 ans. machine mode
- 5 ringing signals

- 6 code number
- 7 no. of dial attempts
- 8 language



announcement of menu item



input of value
1-24 device numbers
number (depending on menu item)



confirmation
Confirmation of input
★ abort of input



announcement of value input or menu settings announcement

Operation

If a confirmation does not take place, alarm messages will be announced at the programmed alarm phone number up until the programmed number of dial attempts has been reached. There is a two minute break between the dial attempts, independent from whether or not the called party has answered the call.

Alarm Phone Numbers and De-/Activating Inputs

If a contact is activated, the programmed alarm phone number will automatically be called. A telephone connected at the terminals a2/b2 will be switched off during the alarm by a relay of the TC device. Alarms occurring during a remote switching session (the TC device has the telephone line already in use), will be processed after releasing the telephone line. Each of the three up to 24-digits phone numbers can be programmed in the menu settings under input 1/2. At the same position the appropriate input can be activated ("4").

Own Phone Number

If the TC device sends off an alarm message via the telephone line, it will first announce the own phone number. The own phone number (max. 24 digits) will be programmed in the menu settings ("3").

Operation

Answering Machine Mode

In order to address a connected answering machine instead of the TC device via the telephone line, the device can be set to an answering machine mode in the menu settings ("4"). If the answering machine mode has been activated, the TC device will not switch on at an incoming call. If the caller releases the telephone line after one ringing signal, waits at least 10 seconds and calls again within 60 seconds, the TC device switches on after the first ringing signal.

Ringling Signal Setting

The amount of ringing signals until the TC device answers the call can be set in the menu settings ("5"). The default setting is "2". If the answering machine mode is activated, the amount of ringing signals is not significant.

Code Number

The four digit code number can be set in the menu settings ("6"). In delivery state the code number "0000" is set. If the code number "1111" is set, the testing of the code number is left out (see page 25). The connection will be released, after entering the wrong code number three times. The default settings can be restored by a procedure (see page 9), if you have forgotten your code number. **Attention:** All individual settings will be erased.

Operation

Number of Dial Attempts

The number of alarm calls carried out by the TC device can be set from "1" to "12" ("7"). The programmed phone numbers will be called on after the other until the programmed number of dial attempts has been-reached .

Language

The language of the announcements can be selected with digit "8". It can be chosen from German, English and Dutch.

Setting Procedures

For programming the parameters the phone line of the TC device must be called from a telephone. After entering the code number, the menu settings can be selected by dialing the digit "9". The menu will start with the following announcement described as "setting announcement" in the examples: "Settings. To set the alarm phone numbers, press one for input 1 and press two for input 2. To set your own phone number, press three. To set the answering machine mode, press four.

Operation

Setting Procedures

To set the amount of ringing signals, press five. To set the code number, press six. To set the number of dial attempts, press seven, to select a language press eight.” The announcement will be repeated several times. It can be interrupted at any position during a silence period by entering a DTMF-digit.

An overview of the operational sequences is printed on the supplementary sheet. Only at initial operation it will be asked for the language. After language selection all

sequences are identical with the ones described before. The impulse time of 1 second can not be changed. The following example shows how the below stated values can be set starting from **delivery state**:

language: english

input 1

alarm phone no. 1: 4711
alarm phone no. 2: 1935
alarm phone no. 3: 1234
state: inactive

input 2

alarm phone no. 1: 0815
alarm phone no. 2: 9876
alarm phone no. 3: 4567
state: active

own phone no.:0235582224
answering machine
mode: off
ringing signals: 7
code number: 1873
no. of dial attempts: 3

Setting Procedures

Operation	Dialing	Announcement
Call the TC device first time:	„0235582224“	”Deutsch 1, english 2, nederlands 3.”
Choosing language	„2“	”This is the Telecontrol. Please dial the code number.”
Dialing of code number	„0000“	”Please dial a device number.”
Changing to the menu settings:	„9“	setting announcement
Set alarm phone numbers for alarm input 1:	„1“	”Alarm input 1. Press one for phone number 1, two for phone number 2 and three for phone number 3. To activate or deactivate the alarm input, press four.”

Setting Procedures

Operation	Dialing	Announcement
Set alarm phone number 1:	„1“	Phone number 1. Please dial phone number 1. To confirm press the pound key, for cancellation the asterisk key.”
	„4711#“	”Phone number 1: 4711“ ”Alarm input 1. Press one for phone number 1, two for phone number 2 and three for phone number 3. To activate or deactivate the alarm input, press four.”
Enter additional phone numbers with the same procedure.		
Deactivating alarm input 1:	„4“	”Alarm input 1: on. Please dial. Alarm input on: 1.

Setting Procedures

Operation	Dialing	Announcement
	„0#“	Alarm input off: 0. To confirm press the pound key, for cancellation the asterisk key.”
Back to the setting announcement	„*“	”Alarm input 1 off. Press one for phone number 1, two for phone number 2 and three for phone number 3. To activate or deactivate the alarm input, press four.” setting announcement
Setting own phone number:	„3“	”Own phone number. Please dial. To confirm press the pound key, for cancellation the asterisk key.”
	„0235582224#“	”Own phone number: 0235582224” setting announcement

Setting Procedures

Operation	Dialing	Announcement
Setting of answering machine mode:	„4“	"Answering machine mode:off. Please dial. Answering machine mode on: 1, Answering machine mode off: 0. To confirm press the pound key, for cancellation the asterisk key."
Confirmation of the actual setting:	„#“	"Answering machine mode: off" setting announcement
Setting of ringing signals:	„5“	"Ringing signals: 2. Please dial. Ringing signals. To confirm press the pound key, for cancellation the asterisk key."

Setting Procedures

Operation	Dialing	Announcement
	„7#“	"Ringing signals: 7" setting announcement
Setting of code number:	„6“	"Code number: 0000. Please dial. New code number. For confirmation press pound key, for cancellation asterisk key."
	„1873#“	"New code number: 1873" setting announcement
Setting of dial attempts:	„7“	Number of dial attempts: 12. Please dial. Number of dial attempts. To confirm press the pound key, for cancellation the asterisk key."
	„6#“	"Number of dial attempts: 6" setting announcement

Setting Procedures

Operation	Dialing	Announcement
Setting of language:	„8“	"Please dial. Deutsch 1, english 2, nederlands 3. To confirm press the pound key, for cancellation the asterisk key."
Confirmation of the actual setting:	„#“	setting announcement
Leave the menu settings:	” * “	"Please dial a device number."
Release connection:	” * “	

Switch Device and Impulse Time, Check the State of Device

Operation	Dialing	Announcement
Turning on the device:	„0235582224“	”This is the Telecontrol. Please dial the code number.”
	„1873“	”Please dial a device number.”
	„11“	”The device 1 is turned on. Please dial a device num- ber.”
Turning on the device for the impulse time (1 second):	„16“	”Impulse mode. The device is turned on. Please dial a device number.”
Checking the state of the device:	„1#“	”The device 1 is turned off. Please dial a device num- ber.”
Release connection:	„*“	

Alarm Messages

Operation	Dialing	Announcement
Input 2 has been activated. The device dials the programmed alarm phone number 1.	„0815“	”This is the Telecontrol. 0235582224. The alarm 2 has been activated.”
The alarm will not be confirmed. After a 2 min. break, the alarm phone number 2 will be called.	„9876“	”This is the Telecontrol. 0235582224. The alarm 2 has been activated.”
The alarm will not be confirmed. After a 2 min. break, the alarm phone number 3 will be called.	„4567“	”This is the Telecontrol. 0235582224. The alarm 2 has been activated.”

Alarm Messages

Operation	Dialing	Announcement
The alarm will not be confirmed. After a 2 min. break, the alarm phone number 1 will be called again.	„0815“	”This is the Telecontrol. 0235582224. The alarm 2 has been activated.”
Automatic redial until the alarm is confirmed or the number of dial attempts has been reached.	„*“	”The alarm has been confirmed. Please dial the code number.”
Release connection or enter the code number for switching on or off the device.	„*“	

Special Features

Unprotected Mode

If the code number "1111" is set, the testing of the code number will be left out, which means directly after seizing the telephone line switching functions and menu settings can be performed.

Time-out

When the TC device seized the telephone line and no DTMF-signals have been received for 60 seconds, the device will release the telephone line.

Power Supply

The feeding of the TC device can be alternatively done with 12 V (UPS). In this case the power feeding must be connected at terminals 12 V (plus) and (minus; see page 8).

Special Features

Behavior during Power Failure

All settings and the actual switching states are permanently stored and are therefore, available after a power failure. If a power failure takes place during an alarm call, the alarm call will be repeated after the power returns.

Power Consumption of TC Device

Device	Power Consumption at Power Supply	
	230 V	13,8 V
relay off	11 mA	30 mA
relay on	13 mA	70 mA

Technical Data

Dimensions L x B x H:	143 x 81 x 28 mm
Weight:	400 g
Color:	pure white (according to RAL 9010)
Temperature range	
Operation:	-5 to 45 °C
Storage:	-25 to 70 °C
Protection class:	IP30 according to EN 60529
Power supply:	12 V DC with screw terminals
Switching output:	potential-free contact
Input 1 and 2:	max. 48 V/2 A AC/DC
Power consumption:	see table on page 26
Ring frequency:	20 Hz to 60 Hz
Telephone connection:	analogue connection according to CTR 21
Plug power supply	
Input voltage:	12 V/1,25 A DC
Class:	IP 20 according to EN 60529

Subjected to technical changes.

All in- and outputs are exclusively designed for the connection of electrical circuits with SELV according to DIN VDE 0100-410.

Guarantee

We guarantee the perfect function of the TC easy Plus Alarm for 2 years after date of purchase (receipt) providing that it was professionally installed and operated. For further questions contact our Rutenbeck-Hot-Line:

+49 36925 90090

Manufacturer's Warranty

In case of a malfunction, consult your dealer or send the device with receipt and a short description of the malfunction to:

**Rutenbeck Service-Center
Gewerbegebiet
Im Meilesfelde 5
99819 Marksuhl
GERMANY**

Phone: +49 36925 90091

Fax: +49 36925 90092

Manufacturer's Declaration

We, Wilhelm Rutenbeck GmbH & Co. KG declare, that the TC easy Plus Alarm is in accordance with the basic requirements of the Council Directive 1999/5/EC of the European Communities.

The complete declaration of conformity can be found under www.rutenbeck.de in the download-sector.

The TC easy Plus Alarm is being manufactured within a comprising quality assurance system according to

ISO 9001:2000 with registration number **000886QM**.

The testing of the requirements regarding EMC and safety regulations take place in the certified Rutenbeck testing laboratory (**Q812412N**) registered by CETECOM ICT Services GmbH (notified body with EC identification number **0682**).



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