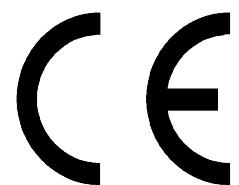


QUICK USER GUIDE

HELPY 2W-EWMS VoLTE

VoLTE integrated
emergency call system
EN81-28 (2022)



 **ROCOM**

Table of contents

Overview	4
Installation location.....	5
Security advice	5
Installation	6
SIM card installation	6
Mobile network antenna.....	7
Connection of the external power supply.....	7
Putting into service	7
PIN code.....	8
Battery	8
Reset button	8
Screw connector	9
General connection plan	10
Programming	11
Activate programming mode	11
Deactivate programming mode.....	11
Telephone numbers	12
Check the programmed telephone numbers	13
Recording identification message.....	13
Delete identification message	14
Listen to the identification message.....	14
ID code programming	14
Check the programmed ID code.....	14
Test call	15
Check test call programming.....	15
Test alarms	15
Acknowledgement procedure	16
Check acknowledgement procedure	17
Speech connection	17
Check speech connection activation.....	17
Notruftastenfilterung	17
Emergency button filtering	18
Check emergency button filtering time	18
Time setting	18
Check internal clock time setting.....	19
Date setting	19
Check actual date setting	19
Volume setting.....	20
Check the volume setting.....	20
Change the password	20
Change language	20
Second and third tranquillization message	21
Programming using a SD micro memory card	22
Reset to factory default.....	22
HOW TO USE (alarm call receiving).....	23
Alarm call to a alarm receiver (ESSETI, P100).....	23
Emergency call to a telephone (DTMF)	23

Ending the alarm..... 24

Optical indicators 26

Red LED for device status 26

Yellow LED for alarm status..... 26

Green LED for mobile network signal strenght..... 27

Blue LED for power supply status..... 28

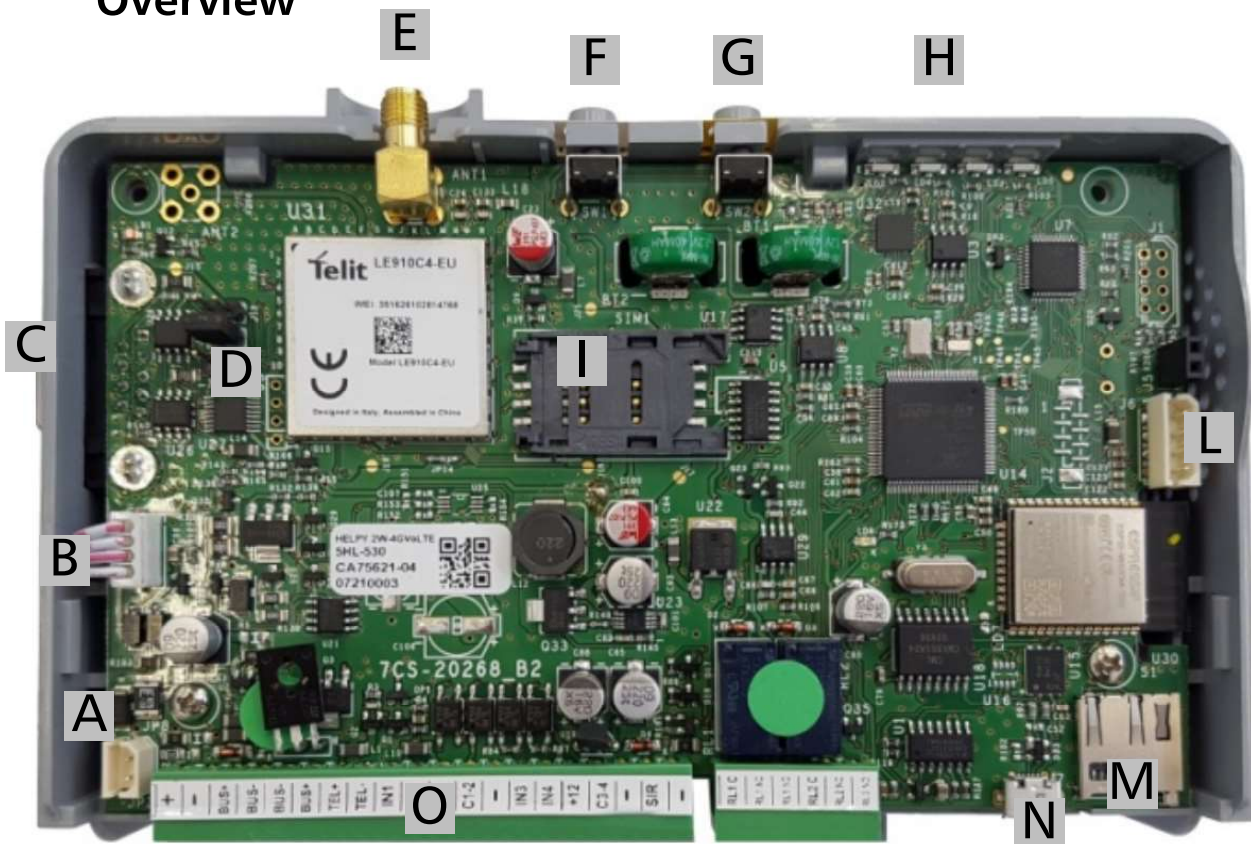
Yellow and green LED (pictograms)..... 29

Technical data 29

Notes..... 30

Notes..... 31

Overview



- A Plug for internal battery
- B Plug for internal power supply (**must be removed when using external 12V supply!**)
- C DB9 serial data connector
- D Jumper for termination resistance
- E SMA connector for external antenna
- F Reset button
- G Call button
- H Optical indicators
- I Protected SIM card slot
- L Serial interface for connection to PC
- M Micro SD card holder
- N Micro USB for connection to PC
- O Screw terminal connector

Helpy 2W-EWMS VoLTE

Installation location

The installation location of the device must:

- be in a dry room;
- be free from dust, heat and direct sunlight;
- be free from liquids or chemically aggressive substances.

Before installation, please note the following:

- The device may only be supplied with the voltage specified on the rating plate.
- If liquid should get into the device, immediately remove the plug from the socket. The device may only be repaired by trained specialists.
- Static discharges can damage the device. Therefore, before you continue working, make sure that any static charges have been discharged by appropriate grounding.

Security advice

Please read these operating instructions carefully before using the device. Observe the safety instructions. Failure to follow these rules could violate applicable law or create a dangerous situation.



Please note!

Think about your own safety when installing the emergency call system. Never work in an open elevator shaft without a safety line. Be careful and cut the current when connecting voltages of 230 - 400 V in the machine room of the elevator shaft. Before touching or connecting cables, always make sure they are powerless.

The Helpy 2W-EWMS VoLTE is a low power radio transmission device, when it is powered it will send and receive radio waves.

The device generates a magnetic field and must be used away from magnetic media (like discs, tapes, and similar).

The use of the device near to electrical or electronic devices like radio, TV, phone and PC may generate disturbances.

Radio disturbances

As any other wireless device the Helpy 2W-EWMS VoLTE may be disturbed by radio waves.

Use in a car

Do not use the device while driving. If you plan to use the device in a car please ensure that all installed devices are protected against radio disturbances. Never use or install the device near to an airbag or within the action radius of an airbag.

Use in an airplane

In an airplane the Helpy 2W-EWMS VoLTE must be switched off. The use of LTE/UMTS/GSM device in an airplane is forbidden by law.

Use within an hospital

Switch the Helpy 2W-EWMS VoLTE off if you are close to any electromedical apparatus.

Please take care that disturbances may affect the use of cardiological and acoustical devices. As the Helpy 2W-EWMS VoLTE is not a mobile device it is not intended for a use in contact with human body. The use of the device within an hospital or any other health facility is only possible if the security advices are followed with the highest attention. Wherever the use of LTE/UMTS/GSM devices is forbidden also the use and the installation of a Helpy 2W-EWMS VoLTE is not permitted.

Use close to explosive material

The Helpy 2W-EWMS VoLTE may not be used or installed within fuel depots, chemical facilities or within areas where explosive gas is present or used. The installation and use of this device within such environments can be done only following the highest security advices.

Usage

Do not use the Helpy 2W-EWMS VoLTE in contact with human body. Do not touch the antenna during operation if not specifically required. Use only original and approved spare parts.

Installation

The Helpy 2W-EWMS VoLTE is intended for installation on the car roof or machine room of the elevator. During installation, appropriate active 2W intercom stations are to be provided for the cabin, pit, etc. These are connected to the central Helpy 2W-EWMS VoLTE unit via a 2-wire bus system. Up to 16 speaker units can be connected.

Ensure that at the installation location a power plug is available nearby. For the wall installation you can use the screws delivered with the unit.

It is very important that the Helpy 2W-EWMS VoLTE unit has all time the best LTE/UMTS/GSM signal to avoid disturbances during operation time. Before you install the device at his final position be sure that it is the best spot you can find. To do this use an mobile phone with a SIM card of the same provider that you are going to use with the Helpy 2W-EWMS VoLTE and try at the spot you are going to use to setup a communication. If during the conversation you will notice disturbances or interruptions you will have to look for a better position.

SIM card installation

For the installation of the SIM card be sure that the device is **SWITCHED OFF!** The SIM card has to be placed into the specific slot. The card should have the PIN code disabled.

**PLEASE NOTE!**

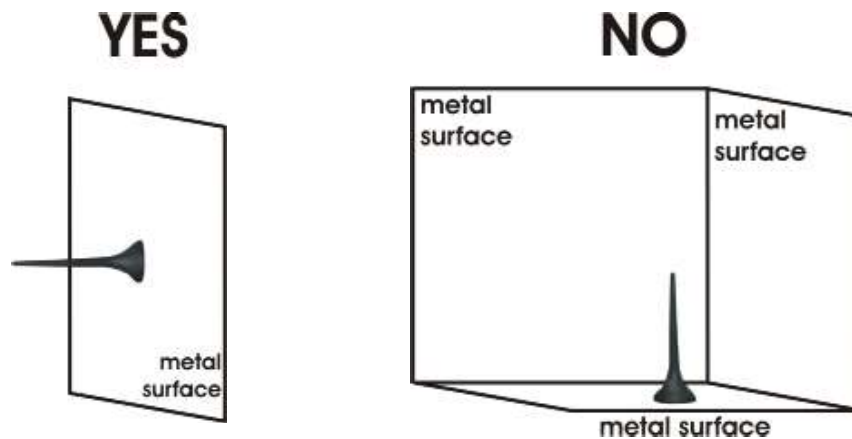
If you change the SIM card switch all time the POWER OFF!

Ensure that the PIN code of the SIM card is disabled with a mobile phone BEFORE you install it into the device.

If you change the SIM card with a new one and you are using data connectivity you must unregister and reregister the device to the VNDNET Server.

Mobile network antenna

The antenna provided is connected to the device with the proper connector outside the case. If you notice problems in getting a proper LTE/UMTS/GSM network signal you may change the antenna. Specific antennas may solve the problem. Ask the technical support for more informations.



Helpy 2W-EWMS VoLTE proper antenna positioning



PLEASE NOTE!

Never power the Helpy 2W-EWMS VoLTE WITHOUT connected antenna. The radio transmission engine may be damaged.

Connection of the external power supply

The device is designed for statical installation and external power supply with 230 VAC. If required also a 12 VDC power voltage can be used. The device has an internal NiMH battery for emergency power supply if external power is missing. The external power supply and battery status is show by the blue LED (see also *LED indicators*).



PLEASE NOTE!

While you are handling with the 230 VAC power be aware to fullfill all national and international security standards as required.

If you need to switch off the device it is not enough to unplug the external power supply unit, as in this case it will be still powered by the internal battery. To complete switch off the unit you have to unplug the external PSU and the internal battery.

Putting into service

After connection of the external power supply the device will first check the SIM card. If no card has been installed, or if it is broken or can't be recognized by the unit, the red LED will start to flash quickly. In this case the SIM card has to be changed.

If everything is OK the device will start the initialisation procedure and login to the provider. This can take some time about 30 to 60 seconds. During this time the red LED will flash quickly. After succesful login the red LED will flash slowly.

PIN code

Deactivate the PIN code for the specific SIM card using a mobile phone before you install it into the Helpy 2W-EWMS VoLTE.



PLEASE NOTE!

Read also *SIM card Installation!*

Battery

The build in NiMH battery is continously tested by the Helpy 2W-EWMS VoLTE. If it will deinstalled or fail the device will rise an appropriate alarm. A battery error is also showed by the blue LED. Furhermore this status is also indicated by a special dial tone. Every 30 seconds the device will check if the battery is connected or not. Also the battery capacity is tested by a discharging procedure. The first time this procedure will take place 15 days after first activation. During the procedure the battery will be discharged over a load for 3 hours. If after the test the battery capacity will be below a defined level an appropriate alarm is rised. The discharging test will not take place or will be interrupted if the device is missing the external power supply. Furthermore the battery is protected against deep discharge. The battery should be changed anyway every 2 to 4 years depending on the installation enviroment and usage. In case of substitution only the same or a equivalent battery must be used to avoid damage on the product.

Reset button

The reset button F (see image on page 4) has two functions:

Short press

The current emergency call is reset.

Long press (10 seconds)

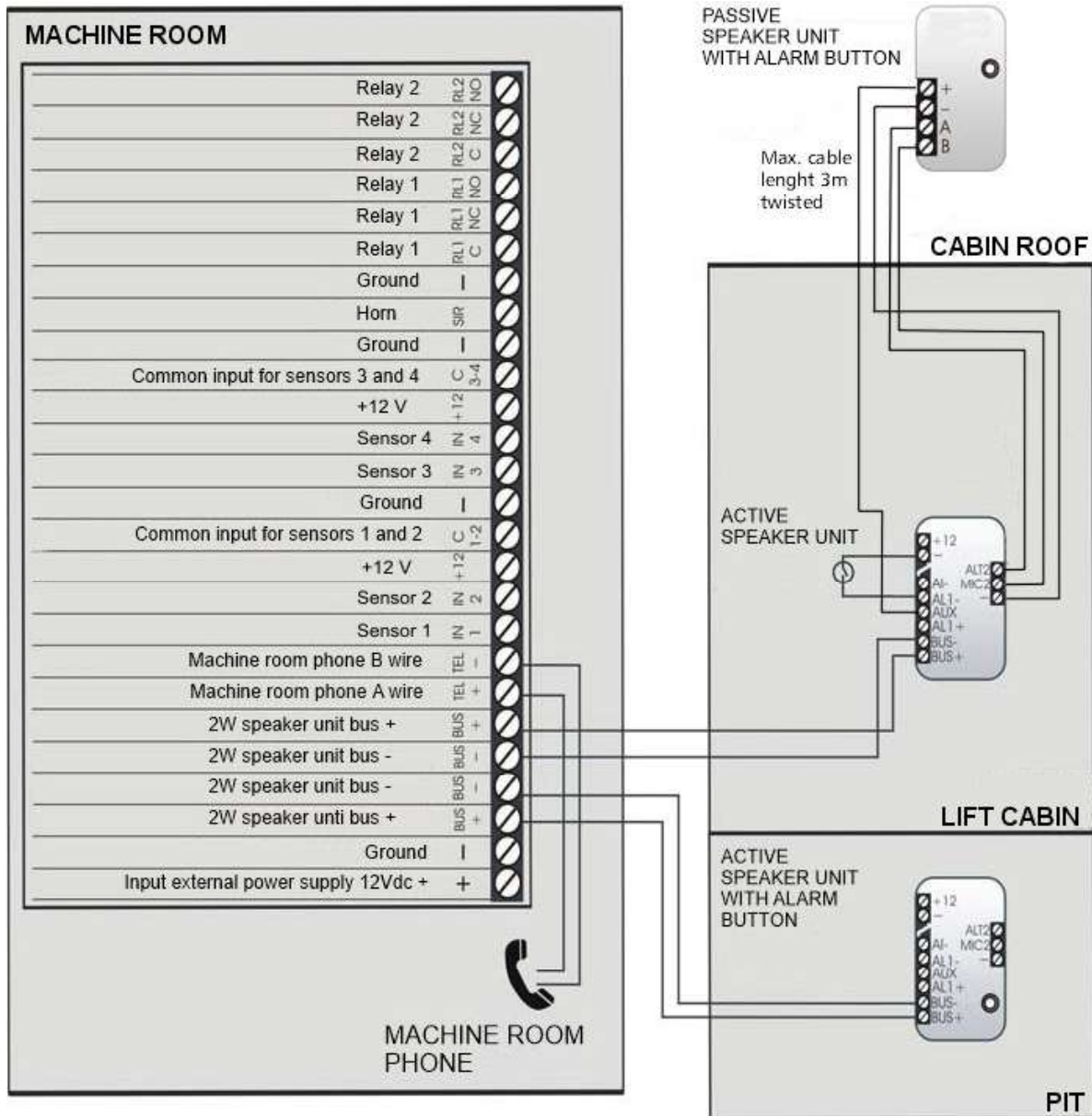
The device will be completely reset and restarted. The saved data are retained.

Screw connector

Designation	Description
+	External power input + 12 Vdc (before use remove plug B))
-	External power input -
BUS+	Bus line for active 2W speaker units +
BUS-	Bus line for active 2W speaker units -
BUS-	Bus line for active 2W speaker units -
BUS+	Bus line for active 2W speaker units +
TEL+	Machine room phone A wurd
TEL-	Machine room phone B wurd
IN1	Programmable sensor input 1 (default: emergency call)
IN2	Programmable sensor input 1 (default: reset, alarm call end)
+12	Power supply output (max. 100mA)
C1-2	Common power supply input for sensor 1 and 2
-	Ground
IN3	Programmable sensor input 3 (default: filter)
IN4	Programmable sensor input 4 (default: general tecnical alarm)
+12	Power supply output (max. 100mA)
C3-4	Common power supply input for sensor 3 and 4
-	Ground
SIR	Output for horn
-	Ground
RL1 C	Input relay 1
RL1 NC	Relay contact 1 (NC)
RL1 NO	Relay contact 1 (NO)
RL2 C	Input relay 2
RL2 NC	Relay contact 2 (NC)
RL2 NO	Relay contact 2 (NO)

Helpy 2W-EWMS VoLTE screw connector description

General connection plan



Helpy 2W-EWMS VolTE general connection plan

Programming

Programming is done with the help of a DTMF telephone, via the serial or USB interface with a PC, via a micro SD card, via SMS or via the Internet (<https://www.estant-rocom.de>). A programming tool ("Estant") is available for programming via PC, SMS and SD card (see www.rocom-gmbh.de for download).



Please note!

During programming, no more than 10 seconds should elapse between entering one digit and the next. After 10 seconds without entering a number, a warning tone sounds and you have to hang up.

These operating instructions are a short version with the most important settings. For a complete description use the programming tool Estant.

Activate programming mode

Programming mode must be activated for programming via DTMF telephone.

DTMF

* <Password (default "0")> #

Example DTMF (ex works)

* 0 #



Please note!

As long as the programming mode is switched on, incoming calls will not be answered.

Programming mode cannot be switched on when the alarm is active. This entry clears the active alarm.

Deactivate programming mode

To switch off the programming mode again:

DTMF

* <Password (default "0")> #

Example DTMF (default)

* 0 #



Please note!

With the same input it is possible to delete a triggered emergency call.

Telephone numbers

It is possible to program up to 24 different telephone numbers for emergency calls, routine calls and technical alarms. A corresponding reception protocol can be specified for each phone number. Each phone number can have up to 20 digits.

MFV

2**1**<position><alarm type><protocol><telephone no.>**#**

Whereby:

<position> can have the value **0****1** to **2****4** for the position 1 to 24.

<alarm type> can have the following values:

- **0****1** for **emergency call**
- **0****2** for **battery alarm***
- **0****3** for **test call***
- **0****4** for **speaker unit connection failure**
- **0****5** for **SIM card alarm**
- **0****6** for **diagnostic alarm*** (microphone/loudspeaker failure)
- **0****7** for **power failure**
- **0****8** for **general technical alarm**
- **0****9** for **end of alarm**
- **1****0** for **battery empty**
- **1****1** for **battery failure**
- **1****2** for **alarm button failure**
- **1****3** for **sensor 1 ON**
- **1****4** for **sensor 1 OFF**
- **1****5** for **sensor 2 ON**
- **1****6** for **sensor 2 OFF**
- **1****7** for **sensor 3 ON**
- **1****8** for **sensor 3 OFF**
- **1****9** for **sensor 4 ON**
- **2****0** for **sensor 4 OFF**
- **2****1** for **power return**
- **2****2** for **battery fully charged**
- **2****3** for **alarm start**
- **2****4** for **timer alarm**

- (2)(5) for **lift monitor system**
<protocol> can have the following values:
- (2) for **DTMF phone** (acknowledgment using DTMF tones)
- (3) for **Esseti protocol**
- (4) for **CLIP call** (call without answer, only technical alarms)
- (6) for **SMS**
- (6) for **P100 protocol**

<call number> is the call number of the recipient (max. 20 digits).

* When programming these phone numbers, this type of alarm is automatically switched on.

Example

You want to program two phone numbers (06106646042) for the emergency call and routine call with P100 protocol:

DTMF

210101606106646042#

210203606106646042#



Please note!

The CLIP protocol cannot be set for the "emergency call" alarm type, as these do not have a voice function. For the Esseti and P100 protocols, a corresponding ID code (see ID code programming) must also be set.

Check the programmed telephone numbers

You can check the programmed telephone number by dialing:

DTMF

21<position>*

Recording identification message

If an emergency or technical alarm call is sent to a normal phone instead of a proper call center you can identify the calling lift using its own telephone number and an identification message. This message can be heard with both incoming and outgoing calls.

DTMF

7101 "Record identification message (max. 1 minute)" #0

Delete identification message

To delete the identification message:

MFV

7 4 0 1

Listen to the identification message

You can hear the recorded identification message by dialing:

MFV

7 2 0 1

ID code programming

If the emergency call, or also a technical alarm, has to be sent to a call center equipped with Esseti or P100 alarm receiver an ID code must be programmed to identify the calling lift.

DTMF

2 2 2 <ESSETI ID code always 10 digits long> #

2 2 3 <P100 ID code always 8 digits long> #

Example

You want to program a Sie P100 ID code (12345678):

DMTF

2 2 3 1 2 3 4 5 6 7 8 #

Check the programmed ID code

You can check the programmed ID code by dialing:

DTMF

2 2 2 * (ESSETI ID code)

2 2 3 * (P100 ID code)

Test call

As default the test call is set to be send every 3 days at 4:00 am. You can change this values:

DTMF

3 1 <days between test calls 1- 9>

3 2 <daytime HHMM; von 0000 bis 2359> (24 h mode)

Example

You to send a test call every day at 2:00 am:

DTMF

3 1 1

3 2 0 2 0 0



PLEASE NOTE!

The test call is activated only after you have programmed a proper telephone number for the receiver (see also *Telephone numbers*)

Check test call programming

You can check the programmed test call settings by dialing:

DTMF

3 1 * (days)

3 2 * (hour)

Test alarms

You can test the single programmed test and alarm calls by dialing

DTMF

9 0 0 9 9 <type>

Whereby <type> can have the following values:

- **0 1** for emergency call
- **0 2** for battey alarm
- **0 3** for test call
- **0 4** for speaker unit connection failure
- **0 5** for SIM card alarm
- **0 6** for diagnostic alarm

- 07 for power failure
- 08 for general technical alarm
- 09 for end of alarm
- 10 for battery empty
- 11 for battery failure
- 12 for alarm button failure
- 13 for sensor 1 ON
- 14 for sensor 1 OFF
- 15 for sensor 2 ON
- 16 for sensor 2 OFF
- 17 for sensor 3 ON
- 18 for sensor 3 OFF
- 19 for sensor 4 ON
- 20 for sensor 4 OFF
- 21 for power return
- 22 for battery fully charged
- 23 for alarm start
- 24 for timer alarm
- 25 for lift monitor system

Acknowledgement procedure

If the emergency call is to be received via DTMF dial, i.e. it is not connected to an emergency call center, it is possible to implement this with or without an acknowledgment procedure. With acknowledgment, the emergency call is only ended

completely after receiving the code number 0 (end). This means that the search process is ended. Without acknowledgment, the emergency call is ended by hanging up the receiver on the far end. Furthermore, it is possible to set the device so that the emergency call is only ended on site or after successful rescue (this corresponds to the specifications of the new EN81.28 (2022) standard). See also end alarm. The acknowledgment procedure is switched on ex works. To turn these off:

DTMF

770

To reactivate the acknowledgement procedure:

DTMF**771**

To activate the acknowledgment procedure with local end of alarm:

DTMF**772**

Check acknowledgement procedure

You can check the programmed acknowledgement procedure settings by dialing:

DTMF**77***

Speech connection

You can define when a speech connection must be established (microphone activation) after a call answer.

- Only after sending the acknowledgement digit **4**
- Automatically after hearing the identification message
- Immediately after the call is activate

As default the speech connection will be activated after sending the acknowledgement digit **4**. To change this please dial:

DTMF

Automatically after identification message

781

Immediately after call activation

782

To set back to default setting:

DTMF**780**

Check speech connection activation

You can check the programmed speech connection activation settings by dialing:

DTMF

7 8 *

Emergency button filtering

To avoid unneeded emergency calls the emergency call button is filtered. That means you have to press the button a specific time long before the alarm call will be activated. As default this time is set to 5 seconds. To change this time:

DTMF

4 2 <Filtering time for emergency call button 2 to 9 seconds>

Check emergency button filtering time

You can check the programmed emergency button filtering time settings by dialing:

DTMF

4 2 *

Time setting

To ensure that the test call will be sent at the required hour the real time clock inside the device must be set to the proper time.

DTMF

3 5 <actual time HHMM 24 h time format>

Example

You want to set the time at 5:30 pm:

DTMF

3 5 1 7 3 0

PLEASE NOTE!

The internal real time clock is powered by its own battery and will work completely independent from the external power supply.

The time setting must be in a 24 h format.

Legal time will switch automatically if the right date has been programmed (see also *date setting*).

Check internal clock time setting

You can check the programmed time setting by dialing:

DTMF

3 5 *

Date setting

To ensure that the clock will switch between summer and winter time as well that the log entries have the right date, the actual date must be set.

DTMF

3 6 <actual date with day of the week, day, month and year WDDMMYY>
Whereby the day of the week is set by using the following numerical values:

0	sunday
1	monday
2	tuesday
3	wednesday
4	thursday
5	friday
6	saturday

Example

you want to set the date sonnday the 30.october 2016:

DTMF

3 6 0 3 0 1 0 1 6



PLEASE NOTE!

The year must be set always with two digits, that means 16 for the year 2016.

It is important to set the actual date to ensure that the log entries have the right date and for the proper legal time switch.

Check actual date setting

You can check the actual date setting by dialing:

DTMF

3 6 *

Volume setting

The volume of loudspeaker and microphone can be set individually for each speaker unit. The factory default values are: Loudspeaker 3, Microphone 5. To change these values:

MFV

80 <speaker unit 01-16> <loudspeaker 1-9> <microfon 1-9> **#**

Example

You want to change the volume of the loudspeaker fro the speaker unit 1 from 3 to 9:

DTMF

800195#

Check the volume setting

You can check the actual volume setting by dialing:

DTMF

80 <speaker unit 01-16> *****

Change the password

As default the password is set to "0". To change this:

DTMF

91 <old password> ***** <new password max. 4 digits> ***** <new password max. 4 digits> *****

Example

You want to change the password from "0" to "1234":

DTMF

910*1234*1234*



PLEASE NOTE!

It is very important that you note the new password. If the password is lost the device can be set back only in the factory!

Change language

As default the german language is selected for all messages. To change the language:

DTMF**7****9**<language>

Whereby:

<language> can have the following value:

- **0****0** for **italian**
- **0****1** for **english**
- **0****2** for **german**
- **0****3** for **french**
- **0****4** for **polnish**
- **0****5** for **portuguese**
- **0****6** for **russian**
- **0****7** for **spanish**
- **0****8** for **czech**

Second and third tranquillization message

It is possible to activate a second and a third tranquillization message in a different language as the first one. As default this feature is deactivated. To activate this function:

DTMF**8****9**<second message language><third message language>**#**

Whereby:

<second/third message language> can have the following value:

- **0****0** for **italian**
- **0****1** for **english**
- **0****2** for **german**
- **0****3** for **french**
- **0****4** for **polnish**
- **0****5** for **portuguese**
- **0****6** for **russian**
- **0****7** for **spanish**
- **0****8** for **czech**

To deactivate the feature:

DTMF

8 9 #

Programming using a SD micro memory card

With the Estant program, it is possible to carry out all the necessary programming for the emergency call device on a PC and then save it on a micro SD memory card. This data can then be transferred to the device. After the SD memory card has been inserted in the slot provided, switch the device off and on again, or press the reset button for 10 seconds. The red status LED now flashes quickly as long as the data is being transferred. At the end you will hear the announcement "Correct" again. The device is now programmed.

Reset to factory default

You can all time reset the device to factory default by dialling:

DTMF

9 9 * <password (default "0")> #



PLEASE NOTE!

The telephone number and ID code will not be cancelled. To delete this entries just overwrite them with an empty entry.

HOW TO USE (alarm call receiving)

Alarm call to a alarm receiver (ESSETI, P100)

The emergency phone should send a call to an always busy call center as defined by the EN81.1-2 standard for lift emergency call systems. As alternative also normale phone or mobile phone can be used to receive the alarm calls. A list with all the call centers provided with a proper alarm receiving equipmente can be found on www.rocom-gmbh.de.

Emergency call to a telephone (DTMF)

The instructions on the following pages are to receive alarm calls using a phone capable with DTMF dial functionality. In this case the dial pad is used to comand the connection and acknowledge the alarm call.



PLEASE NOTE!

All phone used to receive the alarm calls must have a marked dial pad as required. Also they must be clearly identified that they are used to receive emergency calls.

The incoming emergency calls are identified as such by a specific message. This will be played just after answering the call. After hearing to the message the following functions are available:

1. Acknowledge the call by pressing the key **4**. The speech connection will be activated.
2. After the call answer and the message advising the emergency call an identificati-
on message will be played. With the key **1** you can let play this message again.
3. If after the call answer no more keys will be pressed the call will be terminated automatically after 3 minutes. You will get an advice tone 30 seconds before this time expires. Pressing again the key **4**, the call can be prolungated for another 3 minutes.
4. The call can be terminated by pressing the key **0**. This will also terminate the call sequence.
5. As an alternative to the call end by the receiver also a "call end after liberation" can be used. In this case the call will be set on hold by using the key **5**. The alarm status will be now active also after hanging up the phone (yellow LED will lit) until liberation is done. In this status the calling speaker phone can be called any time directly without any further procedure. After liberation this has to be signalized by dialing ***0#0** from the machine room phone. Now a new alarm call is send to the original receiver which can now definitely terminate the call by pressing the key **0**.

If the alarm receiving party doesn't answer the call within 30 seconds, it is busy or does hang up an aswered call without sending the termination code (i.e. if the call is ansered by a answering machine), Helpy will hang up and dial the next

telephone number in the list.



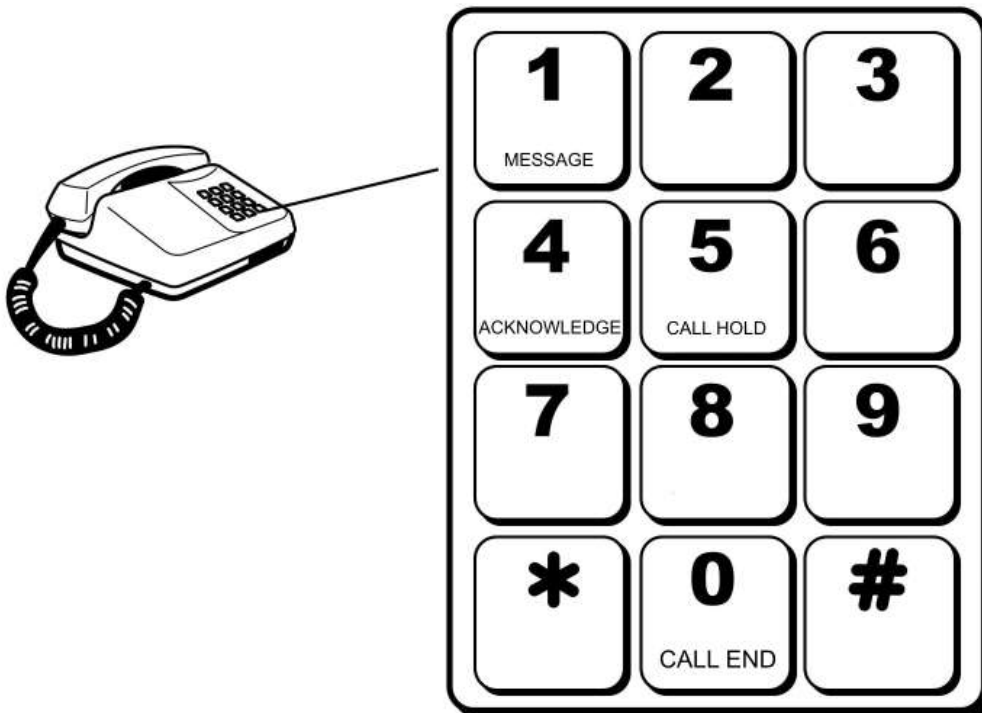
PLEASE NOTE!

All people involved in the alarm call receiving should be instructed in the use of the Helpy emergency phone!



PLEASE NOTE!

The described procedur refer to the the standard DTMF code provided as default. As this codes can be programmed so that the device could use different codes.



Helpy 2W-EWMS VoLTE DTMF emergency call receiving. Standard codes.

Ending the alarm

As required by the actual EN81.28 (2022) norm an activ main alarm must be terminated on side after liberation. This function ist not active as default and must be programmed (see also *acknowledgement procedure*).

If the end of alarm is set for local termination it can be ended after liberation dialing:

From the machine room phone:

- Lift the handset and dial ***0##0**.

From remote:

- Call the device and after call answer dial ***0##0**.

Via a corresponding contact (button, key switch, magnetic switch, etc.):

- For this purpose, sensor IN2 must be programmed accordingly for this function

(**3****9****0****2****0****3**) (as default).

After ending the alarm the device will send, if required, a specific end of alarm call (see also *telephone numbers* (alarm type 9)).

Optical indicators

Red LED for device status

Normal operation (no alarm)



Alarm



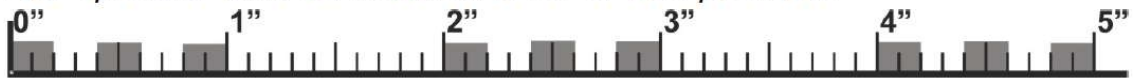
Voice connection



Battery disconnected or low battery (max. 1-hour operation in idle state)



2W speaker unit connection error or bus problem



Absence of telephone line



Button failure



Yellow LED for alarm status

Emergency-call alarm



Emergency call alarm suspended



Other alarms - Test call



Green LED for mobile network signal strenght

No signal



Low signal level (2G/3G network; connection not guaranteed)



Medium signal level (2G/3G network)



Good signal level (2G/3G network)



High signal level (2G/3G network)



Low signal level (4G network)



Medium signal level (4G network)



Good signal level (4G network)



High signal level (4G network)



Blue LED for power supply status

External power supply connected and the battery has max capacity charge



External power supply connected and the battery has good capacity charge



External power supply connected and the battery has medium capacity charge



External power supply connected and the battery has low capacity charge



External power supply connected and the battery is either disconnected or dead



External power supply disconnected and the battery guarantees more than 7-hour operation in idle state



External power supply disconnected and the battery guarantees up to 7-hour operation in idle state



External power supply disconnected and the battery guarantees 2-hour operation in idle state



External power supply disconnected and the battery guarantees 1-hour operation in idle state



Yellow and green LED (pictograms)

Yellow LED on: an emergency call has been activated

Green and yellow LEDs on: the emergency call has been answered

Green LED on: An intercom call is active

Green and yellow LEDs flash: the test call was unsuccessful



Please note!

If necessary, this latter signaling can be switched off with the programming code **343**.

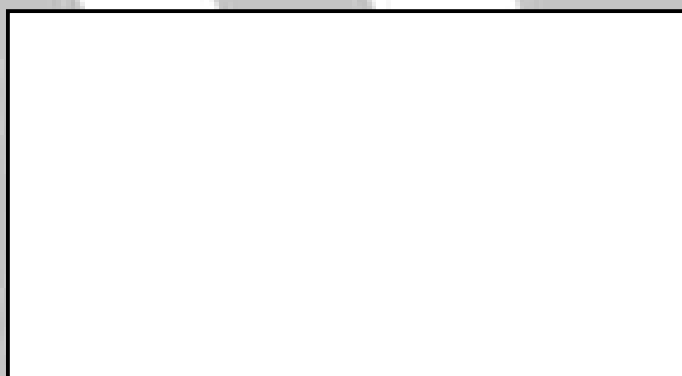
Technical data

Power supply:	230 Vac max. 16W or 12 Vdc
Battery:	NiMH 12v 800 mAh
Mobil radio:	LTE cat. 1 Penta-Band / UMTS HSPA+ Dual-Band / GSM Dual-Band / 3G/2G fallback
Frequencies:	LTE (700/800/900/1800/2100 MHz) / UMTS HSPA+ (900/2100 MHz) / GSM (900/1800 MHz)
Indicators:	Four LED
Dial receiving:	DTMF
Programming:	DTMF, PC, SD memory card, SMS, WEB
Dimensions HxLxD:	62 x 182 x 123 mm
Weight:	654 g
Operating temperatur:	-0° to +40°C
Humidity:	30 to 90% relative humidity no condensing
Case:	ABS
Specifications:	EN62368-1, EN301489-1, EN301489-17, EN301489-52, EN12015, EN12016, EN301511, EN300328, EN62311, EN50385, EN301908-13, EN81:1-2, EN81:28(2004), EN81:28(2022), EN81:70, EN81:80
Conformity:	CE, RoHS

Notes

Notes

Your dealer:



 **ROCOM**

Energie- und Kommunikationssysteme GmbH

Lessing Str. 20, 63110 Rodgau, Germany

Hotline +49- (0) 6106 - 646041

E-Mail: info@rocom-gmbh.de

<https://www.rocom-gmbh.de>