Technical data Omikron CallHelp 400RP relay transmitter.

Power supply voltage	12V DC 500 mA stabilized.
Power consumption	max. 20 mA when not in use, max. 100 mA when transmitting.
Transmit and receive frequency	UHF 433.92 MHz
Transmitting power	<10 mW ERP
Antenna connection	Fixed mounted telescope antenna, it is not allowed to remove or modify it.
Emergency power battery internal in housing	22RH8 8.4V rechargeable. Charging time 14 hours.
Maximum number of placeable relay transmitters	99
Measures (h x w x l)	35 x 120 x 85 mm
Weight	150 gram

Always consult your electro technical consultant or building manager before placing the relay transmitters on a location. Take care that the relay transmitters are not easily accessible for a third party because of unwanted removal or turning off.

Put the relay transmitters only inside, dry and as high as possible. This will give the highest transmission and receiving range.

Description of the Omikron Callhelp 400RP relay transmitter.

The Omikron CallHelp 400RP is a relay transmitter for the cordless paging system Omikron CallHelp. With this you can extend the range or reach difficult reachable places as well.

The range of every relay transmitter is 300 meters in the open field or 3 storeys in a building (indicative figures).

You can add maximum 99 relay transmitters in a system, by which a theoretical transmission range of 30 kilometres in the open or 300 storeys in a building exist. In this way you can make in nearly every situation enough transmission range without the necessity of drawing cables. More buildings, next to each other, and/or huge factory (area)halls with a lot of steel inside can be covered by placing extra relay transmitters.

The relay transmitters are supplied with a internal emergency power battery which can keep the system operating, in case of power faillure.

The system checks itself once per hour. After every self check the display shows the number of the last found active relay transmitter. In a system with five relay transmitters, **"L05"** will appear every hour on the display. That means that all relay transmitters are being active.

Every call is also a system check. In case of a not found relay transmitter, the number of the last found working relay transmitter will appear on the display of the transmitter/operating station. For example: the report **"E05"** means that relay transmitter number **06** is out of order.

For a more detailed description of the use of the Omikron CallHelp cordless paging system we refer to the relevant manuals and documentation.

w i r e l e s s   p a g i n g   s y s t e m s

Instructions for the Omikron CallHelp 400RP relay transmitter

Registration of the relay transmitters to the Omikron CallHelp 400TX transmitter/operating station.

1. Set up the transmitter/operating station Omikron CallHelp 400TX for operation as **"999L"**.

2. Mark the relay transmitters with consecutive numbers from **00** to **99**.

3. Put the power adapter in a wall socket and connect it to the 12V input, but don't turn on the relay transmitter.

4. Put a straight bent paperclip through the little hole with mark **"Learn"** at the back side of relay transmitter number **01**. With which you press the internal program switch. Please keep pressing it.

5. Switch on the relay transmitter with the on/off switch at the back side. Wait until the "Learn" LED at the front will turn off and after some seconds it will turn on again. After that you can release the paperclip and remove it.

6. Register the first relay transmitter as follows. Press at the transmitter/operating station CallHelp 400TX **[Cancel]**, followed by **[0 1 0 0 0 0 Call/Help]**. In the display will appear **"b01"**. Wait until all activity of the **"Receive"** and **"Transmit"** LED at the front side of the relay transmitter is stopped and the display of the transmitter/operating station will show **"E01"**. This takes one and a half minute. Please do not switch off the relay transmitter.

7. Now repeat the procedure above to every following relay transmitter: press **[0 2 0 0 0 0 Call/Help]** for relay transmitter number **02** (in the display will appear **"b02"**and **"E02"**), press **[0 3 0 0 0 0 Call/Help]** for relay transmitter number **03** and so on. On the display will appear **"b03"** and **"E03"** and so on). Do not switch of the programmed relay transmitters.

8. After all relay transmitters are programmed, the system has to setup the last relay transmitter. Switch off the transmitter/operating station, wait 10 seconds and switch it on again. Now look immediately at the upper side. After 5 seconds you will see the green LED light on.

9. While the green LED is lit you press the **[Program]** button of the transmitter/operating station and keep pressing it. Then press the **[Group]** button. The display shows **"_"**. Now release both buttons.

10. Push **[2]**. The display shows **"d00"**. The transmitter/operating station will now look automatically for the last relay transmitter and will program it accordingly. If you programmed for example five relay transmitters, the display of the transmitter/operating station will show after at least 1 minute **"L05"** which means that he recognizes the relay transmitter number **05** as last and that it has being set up accordingly. Leave all relay transmitters switched on.

11. Register a receiver Omikron CallHelp 400RX to the transmitter/operating station. Leave the receiver switched on.

12. Turn off the transmitter/operating station, wait 10 seconds and turn it on again. After 5 seconds the green LED will start to light. When the green LED is lit you press the **[Program]** button of the transmitter/operating station and keep pressing it. Then press the **[Group]** button. The display will show **"_"** . Now release both buttons. Press **[1]**. The display will show **" _ _"**. Press **[0 0]** after you will see during two seconds the present three digit system code. Press **exactly** the same code. After this the transmitter/operating station will transmit during 20 minutes a rising range of numbers. This will be received by the receiver that you just have registered.

13. Take the relay transmitters with their power supply adapters from the wall socket. The relay transmitters will now operate on their emergency power supply. You will see the LED's on the relay transmitters turn off, except the POWER LED, which will flash. Take the receiver CallHelp 400RX with you, together with all relay transmitters and their power supply adapters. Walk away from the transmitter/operating station until the receiver does not receive anymore. Go some distance back until the receiver will get again a good reception and place there the relay transmitter number **01** at a wall socket. Then you walk further on until you are out of the range of the relay transmitter number **01**. Walk back until you have good reception again and place there the relay transmitter number **02**. Repeat this procedure for all relay transmitters. After that all relay transmitters have been placed, you can stop the test transmission by pressing **[Cancel]** of the transmitter/operating station.

14. If required, you can now change the system setup in a 9L, 9Lplus or 99L, and program the receivers, and install the optional equipment. See the relevant instruction manuals and installation details.

Read this manual carefully before you start using this equipment. For all questions concerning the use and maintenance of this product, which are not been mentioned in this manual, please contact your supplier.