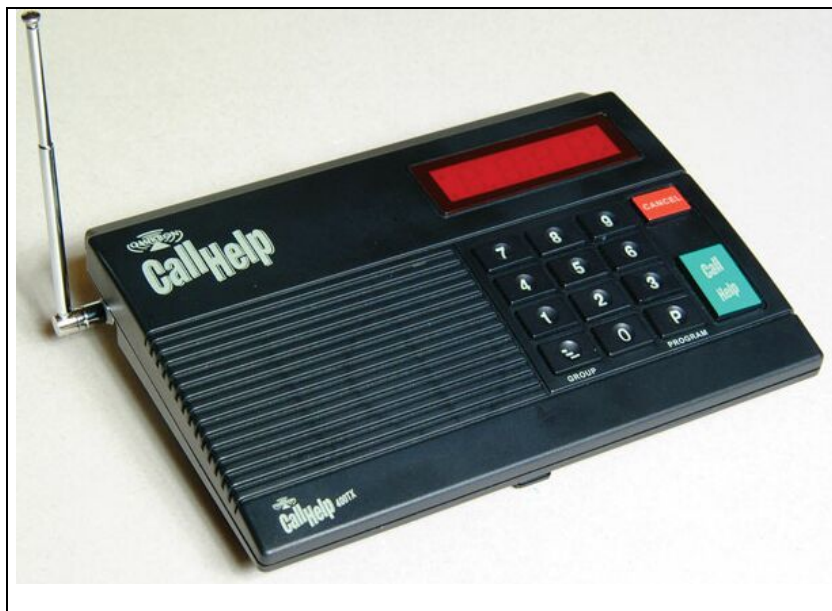




Wireless pagingsystems

Instructions and installation manual

Omikron CallHelp 400TX Wireless Paging System



Declaration of conformity

We hereby declare that the following product:

Omikron Callhelp 400TX fulfills all product standards, tests and safety requirements according to the guidelines 1995/5/EG (R&TTE-RL).

Definition of the product: HF paging system
ID Mark: Class 1 Equipment



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Ridderkerk, 01.06.2004

A.M. de Raadt

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

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2.1 Device description

The OMIKRON CallHelp 400 system is a cordless paging system to be used in buildings and large areas, were in almost every situation a full transmission and receiving covering range can be realised by placing one or more relay transmitters.

The Omikron CallHelp 400TX is the transmitter/operating station of the system. Which is adjustable as one of the following settings:

1. **9L.** With one keystroke *all receivers* are called. The pressed number appears on the display.
2. **9LPlus.** With one keystroke *the receiver which has the pressed number* is called. The display will show a “0”.
3. **99L.** With this setting you can call maximum 99 receivers *individually*, as a *group* or *all* together. The display will show a single digit message code.
4. **999L.** With this setting you can call maximum 99 receivers *individually*, as a *group* or *all* together. The display will show a single scrolling triple figure message code.

The following accessories are supplied as an option:

The **Omikron CallHelp 400RX** is the receiver (“pager”) of the system. This can beep and/or vibrate, as desired with intervals or continuous (with a maximum of ten minutes or less until the button of the pager is pressed), the received message code will also appear on the display.

The **Omikron CallHelp 400RP** is the relay transmitter of the system. By placing maximum 99 relay transmitters, the transmission range can be enlarged, so virtually every area can be covered.

The **Omikron CallHelp 400ET** is an easily programmable console with 32 speed dialing keys and a contact strip with 32 contacts to connect external alarm devices and/or push buttons.

The **Omikron CallHelp 400TC** is a telephone interface to operate the paging system through the telephone.

A RS232 connection is also present to couple the paging system with a PC (the optional software and cable set CallHelp 400CS is necessary).

The **Omikron CallHelp 400CS** is a software and cable set to connect the Omikron CallHelp 400TX with a PC.

The **Omikron CallHelp 400LC** is a protecting case for the receiver CallHelp 400RX

2.2. Instructions

- a. Install the telescopic antenna at the transmitter/operating station and slide it out completely to it’s full length.
- b. Connect the power adapter, but do not switch the device on yet.
- c. Place the batteries in the receiver(s) Omikron CallHelp 400RX.
- d. If you use the relay transmitter CallHelp 400RP: connect the power supplies, but do not switch on the devices yet.
- e. If you use the telephone-and computer interface CallHelp 400TC: connect the CallHelp 400TC. All devices (also the computer) first have to be turned off. Follow the instructions of the CallHelp 400TC.
- f. If you use the key and contact interface CallHelp 400ET: connect the CallHelp 400ET with the supplied cable. All devices that have to be connected have to be turned off first. Follow the instructions of the CallHelp 400ET.

2.3 How to program the system code of the transmitter/operating station

By setting up the system code you prevent that the receivers and the relay transmitters of other Omikron users, who are located in the area inside your transmission range, will react to your transmitter/operating station and the other way round. If you modify the system code at a later moment, all the corresponding receivers and relay transmitters have to be registered once again.

- a. Turn the transmitter/operating station “on” and look at the top panel. After 5 seconds the green LED, which is situated approximately in the middle for the top panel, will start to light. It continues to light for approximately 5 seconds. While the green LED is lit, press the **[Program]** button of the transmitter/operating station and keep pressing it. Press then the **[Group]** button. The display will show “_”. Now release both buttons. Press **[1]**. The display will show “_ _”. Press **[0 0]**. The display will show first the actual three figures system code. After that the display will show “_ _ _”. Press now the three numbers code, for instance the last three figures of the serial number of the transmitter/operating station.
- b. The transmitter/operating station accepts the system code and begin afterwards to send during 20 minutes repeatedly the series (ALL) 1-2-3-4-5-6-7-8-9-0. (With this you can test later the transmission range). Press **[Cancel]**.

3.1 The set up for the use with or without relay transmitters CallHelp 400RP

- a. Setup the transmitter/operating station as 999L. Turn off the transmitter/operating station, wait 10 seconds and turn it on again. After 5 seconds the green LED will start to light. While the green LED is lighting, 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 **[3]**. The display will show first the actual setup and afterwards “5 - _”. Press **[4]**. The display shows “999”. Press afterwards **[Cancel]**.
- b. Turn off the transmitter/operating station, wait 10 seconds and turn it on again. After 5 seconds the green LED will start to light. While the green LED is lighting, 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 **[35]**. The display shows “_ _ _”. For the use without relay transmitter, press **[0 0 0]**, the display changes and shows “_ _ _” press **[0 0 0]**. For the use with relay transmitter, press **[1 1 1]**, the display changes and shows “_ _ _” press **[1 1 1]**. Press here after **[Cancel]**. If you do **not** use the relay transmitters, read further from point 3.2.8.

3.2 Registration of the relay transmitters CallHelp 400RP.

1. Mark the relay transmitters with consecutive numbers **01**, **02**, **03** and so on.
2. Put the power adapter in a socket and connect it with the 12V input, but don't turn on the relay transmitter.
3. 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 inside program switch. Please keep pressing it. Switch on the relay transmitter with the on/off switch at the back side. Wait until the “**Learn**” LED will turn out and after some seconds it will turn on again. After that you can release the paperclip and remove it.
4. Register the relay transmitter number **01** as follows. Press the transmitter/ operating station CallHelp 400TX **[Cancel]** button, followed by **[0 1 0 0 0 0]**, then press **[Call/Help]**. In the display will appear “**b 0 1**”. 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 “**E 0 1**”. This takes one and a half minute. Please do not turn off the relay transmitter.
5. Now repeat the procedure above to every following relay transmitter: press **[0 2 0 0 0 0]** for relay transmitter number **02** (in the display will appear “**b 0 2**” and “**E 0 2**”), press **[0 3 0 0 0 0]** for relay transmitter number **03** and so on. On the display will appear “**b 0 3**” and “**E 0 3**”). Keep the programmed relay transmitters on.
6. After all relay transmitters are being programmed, the system has to know the last relay transmitter. Switch off the transmitter/operating station, wait 10 seconds and switch it on again. After 5 seconds the green LED will start to light during 5 seconds. While the green LED is lit, 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. Press **[2]**. The display will show “**d 0 0**”.
7. The transmitter/operating station now will 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 one minute “**L 0 5**” 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.
8. Register a receiver Omikron CallHelp 400RX to the transmitter/operating station as follows: press the switch on/off of the receiver “**down**” and slide it towards one of both “**on**” positions while you keep it pressed. The display will show successively show the system code, the receiver's number and after “**≡**”, “**1A**” or “**1b**”. Press on the transmitter/operating station **[Cancel]**, followed by **[0 0 0 0 0 0]**. Press **[Call/Help]**. The receiver will beep for the confirmation. Leave the receiver on.
9. 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 lighting the green LED 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 registered.
10. Take out the relay transmitters with the 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 turning off, except the **POWER LED**, which will begin to flash. Take the receiver CallHelp 400RX with you, together with all relay transmitters and their adapters. Walk away from the transmitter/operating station until the receiver doesn't react anymore. Go some distance back until the receiver will get again a good range, find a wall socket and place there the relay transmitter number **01**. Then you walk on until you are out of the range of the relay transmitter number **01**. Walk back until you will have range again and put 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]** on the transmitter/operating station.

4.1 How to choose if you want to setup the transmitter/operation station as 9L, 9LPlus, 99L or 999L.

a. **If you want to setup the transmitter/operating station as:**

9L The transmitter/operating station will call with one keystroke **all the receivers**. The display will show the number that you have pressed. By pressing on key "1" all receivers will react with a "1" on the display. By pressing on key "2" all receivers will react with a "2" on the display. And so on, until: by pressing on key "0", all receivers will react with a "0" on the display.

9LPlus The transmitter/operating station will call with one keystroke **all the receiver with that number**. Press on key "1" and the receiver "1" will react. Press on key "2" and the receiver "2" will react. And so on, until: press on key "0" and the receiver "0" will react. The display of the called receiver will show a "0".

99L The transmitter/operating station can call maximum 99 receivers **individually**, as a **group** or **all** together. The display will show a single numerical message code.

999L The transmitter/operating station can call maximum 999 receivers **individually**, as a **group** or **all** together. The display will show a triple numerical message code.

b. **Adjust the system of your choice as follows:**

Turn off the transmitter/operating station, wait 10 seconds and turn it on again. After 5 seconds the green LED will start to light. While the green LED is lighting, 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 **[3]**. The display will show first the actual regulation and afterwards "5 - _". Press now the number of the system that you want to setup:

9L Press key **[1]**. The display shows "9L". Now the transmitter/operating station is adjusted as 9L. Press **[Cancel]** to activate your choice. Go further to point **4.2**

9LPlus Press key **[2]**. The display shows "9LPlus". Now the transmitter/operating station is adjusted as 9LPlus. Press **[Cancel]** to activate your choice. Go further to point **5.1**

99L Press key **[3]**. The display shows "99". Now the transmitter/operating station is adjusted as 99L. Press **[Cancel]** to activate your choice. Go further to point **5.2**



999L Press key **[4]**. The display shows "999". Now the transmitter/operating station is adjusted as 999L. Press **[Cancel]** to activate your choice. Go further to point **6.1**

Remark: You can always change your choice later and chose for another system setup. In that case, the receivers and the relay transmitters have to be registered once again to the transmitter/operating station.

4.2 The transmitter/operating station have been setup as 9L.

The receivers can beep/vibrate or only vibrate. With the three-position switch the operation mode is choosen. Besides, you can choose whether the call have to be with or without intervals.

1. **How to choose whether the receiver(s) have to call with or without intervals.**

- a. Press the receiver's switch "on/off" down and slide it towards one of the two "on" positions ( or ) while you keep the switch pressed down. The display will now show first the system code, followed by the receiver's number, after which three horizontal thin lines will appear "≡", followed by "1A" or "1b". Now you can release the switch. By pressing the switch repeatedly down, the display will change between "A" and "b". If you choose the "A" position the calls will have intervals, if you choose the "b" position the call will be continuous.

2. **How to register the receiver(s) to the transmitter/operating station.**

- a. Press key **[Cancel]**.
b. Press key **[0]**.
The receiver is now registered and it will be called only once.

3. **How to call the receivers**

- a. Press one of the keys **[0 until 9]**. Now all the receivers will be called with the pressed number on the display.
b. Press key **[Group]** and then all the receivers will be called with a "0" on the display.

4. **How to receive a call**

- a. If the receiver is being called, the "message code", which has been pressed on the transmitter/operating station, will appear on the display for a few seconds. Press the receiver's switch "on/off" to stop the calls. The display will show again the code which has been received.
b. If you press once again, the display will still show the last before one code. In this way the receiver remembers the last received 8 message codes.

5.1 The transmitter/operating station have been setup as 9LPlus.

The receiver can beep/vibrate or only vibrate. With the three-position switch the operation mode is chosen. Besides, you can choose whether the call have to be with or without intervals.

1. How to choose whether the receiver(s) have to call with or without intervals

- a. Press the receiver's switch on/off down and slide it towards one of the two "on" positions (☐ or ☒) while you keep the switch pressed down. The display will show first the system code, followed by the receiver's number, after which three horizontal thin lines will appear "≡", followed by "1A" or "1b". Now you can leave the switch. By pressing the switch repeatedly, the display will change between "A" and "b". If you choose the "A" position the calls will have intervals, if you choose the "b" position the call will be continuous..

2. How to register the receiver(s) to the transmitter/operating station.

- a. Press the key **[Cancel]**.
- b. Press key **[1]** if you want that the receiver will have number "1".
Press key **[2]** if you want that the receiver will have number "2".
Press key **[3]** if you want that the receiver will have number "3".
And so on, until:
Press key **[0]** if you want that the receiver will have number "0".
The receiver is now registered and it will be called only once.

3. How to call the receivers

- a. Press one of the keys **[0 until 9]**. Now all the receivers will be called with the pressed number on the display. The display will show a "0".
- b. If you press **[Group]**, all the receivers will be called with a "1" on the display.

4. How to receive a call

- a. If the receiver is being called, the "message code", which has been pressed on the transmitter/operating station, will appear on the display for a few seconds. After the receiver is called, **press** the receiver's switch "on/off" switch to stop the calls.
- b. If you press once again, the display will still show the last before one code. In this way the receiver remembers the last received 8 message codes.

5.2 The transmitter/operating station have been setup as 99L.

The receiver can beep/vibrate or only vibrate. With the three-position switch the operation mode is chosen. Besides, you can choose whether the call have to be with or without intervals.

1. How to choose whether the receiver(s) have to call with or without intervals

- a. Press the receiver's switch on/off down and slide it towards one of the two "on" positions (☐ or ☒) while you keep the switch pressed down. The display will show first the system code, followed by the receiver's number, after which three horizontal thin lines will appear "≡", followed by "1A" or "1b". Now you can release the switch. By pressing the switch repeatedly, the display will change between "A" and "b". If you choose the "A" position the calls will have intervals, if you choose the "b" position the call will be continuous.
- b. Press the number (two figures) that you want to give to the receiver, followed by **[0]** and **[Call/Help]**.

For instance:

Press successively on keys **[0 1 0 CALL/HELP]** if the receiver has to get the call number "01".

Press successively on keys **[0 2 0 CALL/HELP]** if the receiver has to get the call number "02".

And so on, until:

Press successively on keys **[9 9 0 CALL/HELP]** if the receiver has to get the call number "99".

2. How to call the receivers

- a. To call an individual receiver: enter the two figure number of the receiver that you want to call, followed by the message code that has to appear on the display, and **[Call/Help]**. For instance: press **[0 1 9 Call/Help]** will call the receiver "01" with a "9" on the display.

- b. **To call all receivers with the same initial number:** enter the initial number followed by **[Group]**. For instance: press **[0 Group 8 Call/Help]** calls all receiver numbers that begin with “0”, with an “8” on the display. In this way you can call, for instance, all the employees by floor number.
- c. **To call all receivers with the same end figure:** press **[Group]** followed by that end figure. For instance: **[Group 2 4 Group]** call all the receivers that end with the number “2” with a “4” on the display. In this way you can call, for instance, all the employees by function (managers, executives).

3. How to receive a call

- a. If the receiver is being called, the “message code”, which has been pressed on the transmitter/operating station, will appear on the display for a few seconds. After the receiver is called, press the receiver’s switch on/off to stop the calls.
- b. If you press once again, the display will still show the last before one code. In this way the receiver remembers the last received 8 message codes.

6.1 The transmitter/operating station have been setup as 999L.

The receiver can bleep/vibrate or only vibrate. With the three-position switch the operation mode is chosen. Besides, you can choose whether the call have to be with or without intervals.

1. How to choose whether the receiver(s) have to call with or without intervals

- a. Press the receiver’s switch on/off down and slide it towards one of the two “on” positions (☐ or ☒) while you keep the switch pressed down. The display will show first the system code, followed by the receiver’s number, after which three horizontal thin lines will appear “≡”, followed by “1A” or “1b”. Now you can leave the switch. By pressing the switch repeatedly, the display will change between “A” and “b”. If you choose the “A” position the calls will have intervals, if you choose the “b” position the call will be continuous.

2. How to register the receiver to the transmitter/operating station

- b. Press the number (**three figures**) that you want to give to the receiver, followed by **[0 0 0]** and **[Call/Help]**.

For instance:

Press successively **[0 0 1]**, the display changes and shows “_ _ _”, press **[0 0 0 Call/Help]** if you want to give to the receiver the call number “0 0 1”.

Press successively **[0 0 2]**, the display changes and shows “_ _ _”, press **[0 0 0 Call/Help]** if you want to give to the receiver the call number “0 0 2”.

And so on, until:

Press successively **[9 9 9]**, the display changes and shows “_ _ _”, press **[0 0 0 Call/Help]** if you want to give to the receiver the call number “9 9 9”.

3. How to call the receivers

- a. **To call an individual receiver:** enter the **three** figure number of the receiver that you want to call, followed by the **three** figure message code that has to appear on the display of the receiver, and **[Call/Help]**.
For instance: **[0 0 1 9 9 9 Call/Help]** will call the receiver number “0 0 1” with a message code “9 9 9” on the display.
- b. **To call all receivers with the same initial number:** enter the **initial** number followed by **[Group Group]**. For instance: press **[0 Group Group 999 Call/Help]** calls all receiver numbers that begin with “0”, with a message code “9 9 9” on the display. In this way you can call, for instance, all the employees by floor number.
- c. **To call all receivers with the same middle figure:** press **[Group]** followed by that **middle** number and **[Group]**.
For instance: **[Group 0 Group 9 9 9 Call/Help]** calls all the receivers with the number “0” in the middle and a “9 9 9” on the display. So you can call the receivers by service (Security staff , First Aid)
- d. **To call all receivers with the same end figure:** press **[Group Group]** followed by that **end** figure. For instance: **[Group Group 0 9 9 9 Call/Help]** call all the receivers that **end** with the number “0” with a message number “9 9 9” on the display. In this way you can call, for instance, all the employees by function (leaders, executives).

4. How to receive a call

- a. If the receiver is being called, the message code which has been pressed on the transmitter/operating station will appear on the display of the receiver for a few seconds. After the receiver is called, press the receiver’s switch **on/off to stop the calls.**
- b. If you press once again, the display will still show the last before one code. In this way the receiver remembers the last received 8 message codes.

7.1 Tips for the optimal range

Omikron CallHelp 400TX transmitter/operating station

1. Fully extend the telescope antenna to its full length. The presence of metal objects in the near vicinity of the antenna, such as pipes, cables, heating pipes, reinforcing steel, influence the transmitting signal. That is why it should not be placed near to these objects.
2. Place the device far from computers, photocopiers, printers, electrical motors, machines of any other possible power distortion sources.
3. The building construction influences the penetrability power of the transmitting signal. Therefore the place from where the biggest transmission range can be achieved can be different by location. Because of this, you have to fix in a experimental way where the transmitter/operating station reaches the optimal range. If the range is not enough, you will have to place according to the needs the relay transmitters Omikron CallHelp 400 RP. The higher the transmitters are placed, the more range there will be.
4. Transmission range:
Range indication for a transmitter/operating station or relay transmitter in an open field (the transmitter and the receiver can see each other): 300 meters. Range indication in a multiple story building: 3 floors.

7.2 Technical data

Transmitter/operating station CallHelp 400TX

Power supply voltage
Power consumption

Model and the specifications or designs are without reserves of modification

12VDC 500 mA stabilised

Max. 150 mA when in standby, "000" on the display

Max. 300 mA during transmission, "000" on the display

Transmit frequency Omikron CallHelp 400TX
Transmit power Omikron callHelp 400TX
Antenna connection Omikron CallHelp 400TX
Internal emergency backup battery inside housing

UHF 433.92MHZ

<10 mW ERP

Fixed mounted telescope antenna, it is not allowed to modify it.

RH8 8.4V rechargeable, charging time 14 hours. The emergency power battery has to be changed once per year.

1000 combinations possible

System codes

Unlimited

Maximum number of receivers to be called 9L

10

Maximum number of individual receivers to be called 9LPLUS

99

Maximum number of individual receivers to be called 99L

999

Maximum number of individual receivers to be called 999L

99

Maximum number repeaters Omikron CallHelp 400RP

Dimensions (W x L x H)

200 x 150 x 65 mm

Weight

1020 grams

Receiver (supplied as option) Callhelp 400RX

Battery

2 pieces AAA rechargeable batteries.

It is recommended to change the batteries once per year.

Power consumption

max. 2 mA in standby

max. 30 mA during the calling (bleep)

max. 140 mA during the calling (vibrate)

Receiving frequency

UHF 433,92 Mhz

Message code transmitter/operating station adjusted as 999L

Triple figure, single scrolling digit, from 000 until 999

Message code transmitter/operating station adjusted as 9L, 9LPlus, 99L

Single digit, from 0 until 9

Calling signal

"bleep or vibrate", continuous or with interval (max. 10 minutes)

"battery low" indicator

two bleeps, every 5 minutes, "b" on the receiver's display

Dimension (W x L x H)

50 x 20 x 90 mm vertical

Weight

86 gram incl. battery's

8.1 Safety

1. Pay attention to be aware of the eventual duties and dangers connected with the use of this device.
2. Let all the reparations to a qualified and authorised staff.
3. The device can and may not be used in a vicinity where as result disturbance and damage can be caused.
4. Do not modify or change the device.
5. Use only the supplied original power adapters.
6. Do not use the device in a warm, dusty or humid premises.
7. Do not use the device without protection from the outside (shaking, bump, fall etc).
8. Do not use the device for another target than the appropriate one.
9. The batteries have to be eliminated only following the legal prescriptions.
10. If you have questions of there is a lack of clarity as far as the use of this device, please contact you distributor.
11. Keep this manual in a safe place for future reference.

8.2 Guarantee conditions

1. **Guarantee period** One year, to be calculated from the purchase date by an authorised dealer of Omikron Europe BV.
2. **Condition** The following information has to be given in the presentation of the reparation: the purchase certificate in which is mentioned the purchase date, name and address of the dealer, name and address of the buyer, and also the serial number of the device and a clear description of the complain or malfunction.
3. **Covered faults** All faults which are not caused by the use contrary to the instructions in this manual or to the safety prescriptions, the abnormal use or the external violence such as lightning strike, falling damage, humidity damage, overvoltage or wrong installation etc.
4. **Replacement** Omikron Europe B.V. keeps its right to replace the device, when the reparation is non economically feasible.
5. **Non covered faults** The batteries and all material subjected to wear, the usual maintenance and adaptations, the periodical control of the system or of its individual elements.
6. **Exclusions** All devices in which there are none, partially or not original serial numbers If the device is opened, repaired or modified, the guarantee expires.
7. **What is covered** All the necessary materials and the cost of labour.
8. **The location of repair** All repair has to occur atthe location of Omikron Europe BV, unless otherwise agreed.
9. **Shipping costs** They have to be paid by the client, unless otherwise agreed.
10. **Handling** The shipping, the package, the installation, the risks and other made costs will be calculated.

8. Instructions for a quick start up for the Omikron CallHelp 400 system.

- 1 Setup the transmitter/operating station for operation mode “999L” as follows. Turn off the transmitter/operating station, wait 10 seconds and turn it on again. After 5 seconds the green LED, which is placed in the middle of the topside, will start to light. While the green LED is lit, 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 **[3]**. The display will show first the actual setup and afterwards “5 - _”. Press **[4]**. The display shows “9 9 9”. Press afterwards **[Cancel]**.
- 2 Setup the transmitter/operating station for the use with or without relay transmitters. Turn off the transmitter/operating station, wait 10 seconds and turn it on again. After 5 seconds the green LED will start to light for 5 seconds. While the green LED is lit, 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 **[35]**. The display will show first the actual setup. For the use without relay transmitter, press **[0 0 0]**, the display changes and shows “_ _ _”, press **[0 0 0]**. For the use with relay transmitters press **[1 1 1]**, the display changes and shows “_ _ _”, press **[1 1 1]**. Press afterwards **[Cancel]**.
- 3 Set up the system code of the transmitter/operating station as follows. Turn off the transmitter/operating station, wait 10 seconds and turn it on again. After 5 seconds the green LED will start to light for 5 seconds. While the green LED is lit, 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 for 1 second the actual three digit system code, change it for instance into the 3 last figures of the serial number. Press afterwards **[Cancel]**.
- 4 Mark the relay transmitters with consecutive numbers from **01** until **99**.
- 5 Put the power adapter in a wall socket and connect it with the 12V input, but do not turn on the relay transmitter.
- 6 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 program switch. Please keep pressing it.
- 7 Switch on the relay transmitter with the on/off switch at the back side. Wait until the “Learn” LED will turn out and after some seconds it will turn on again. After that you can release the paperclip and remove it.
- 8 Register the relay transmitter number **01** as follows. Press the transmitter/ operating station CallHelp 400TX **[Cancel]**, followed by **[0 1 0 0 0 0 Call/Help]**. In the display will appear “b 0 1”. Wait until all activity of the “Receive” and “Transmit” LED at the front side of the relay transmitter stopped and the display of the transmitter/operating station will show “E 0 1”. This takes one and a half minute. Please do not turn off the relay transmitter.
- 9 Now repeat the procedure above to every following relay transmitter: press **[0 2 0 0 0 0]** for relay transmitter number **02** (in the display will appear “b 0 2” and “E 0 2”), press **[0 3 0 0 0 0]** for relay transmitter number **03** and so on. On the display will appear “b 0 3” and “E 0 3”). Keep the programmed relay transmitters turned on.
- 10 After all relay transmitters are programmed, the system has to know the last relay transmitter. Switch off the transmitter/operating station, wait 10 seconds and switch it on again. After 5 seconds the green LED will start lighting during 5 seconds. While the green LED is lit, 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. Press **[2]**. The display will show “d 0 0”. The transmitter/operating station will now automatically search 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 one minute “L 0 5” which means that he recognizes the relay transmitter number **05** as last and that it has being setup. Leave all relay transmitters switched on.
- 11 Register a receiver Omikron CallHelp 400RX to the transmitter/operating station as follows: press the switch on/off of the receiver down and slide it towards one of both “on” positions while you keep it pressed down. The display will show successively the system code, the receiver's number and after “≡”, “1A” or “1b”. Press on the transmitter/operating station **[Cancel]**, followed by **[0 0 0 0 0 0 Call/Help]**. The receiver will beep for the confirmation. 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. While the green LED is lighting, 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 which you will see during two seconds the present system code. Press **exactly** the same three digit 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 out the relay transmitters with the 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 turning off, except for 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 doesn't receive anymore. Go some distance back until the receiver will have again a good reception and place there the relay transmitter number **01** connected to a wall socket. Then you walk further on until you are out of the range of relay transmitter number **01**. Walk some distance back until you will have good reception again and put there the relay transmitter number **02**. Repeat this procedure for all following relay transmitters. After that all relay transmitters have been placed in position, you may stop the test transmission by pressing **[Cancel]** on the transmitter/operating station.
14. Now you can set up the system for use as 9L, 9LPlus or 99L. The receivers can be now programmed with correct numbers, and if it is necessary, the optional device(s) can be connected (while the device(s) are turned off).

For a detailed description of the complete Callhelp 400 system, please refer to the relevant instruction manuals.