

Omikron CallHelp 500RX2WAY Pager

User Manual – version 5.07



Technical specification

- Charging voltage: DC 5 V / 1 A, USB Type-C charger
- Frequency: UHF 433.92 MHz
- Transmitting power: < 10 mW
- Emergency alert transmission system with 4 messages
- Standby time: $\pm$ 30 – 59 hours (depending on use)
- Lithium battery 380 mAh
- Receive/transmit range: < 200 m / 100 m (open field)
- 1.54" IPS colour touch screen
- 16-character alphanumeric messages
- Splash-proof
- Wearable in watch style with wrist strap or clip

*** Use with Omikron CallHelp 500TRX-IO / RP / RX / RX2WAY and BTTN(s) for alphanumeric text messages.**

Warranty: 1 year. Excluded are: damage caused by dropping, water damage, damage caused by incorrect or improper use, opening of or modifications to the device, and screen breakage.

** All specifications or functions, whether mentioned or not, may be changed by Omikron at any time without notice.*

Declaration of Conformity

We hereby declare that the following product: Omikron CallHelp 500RX2WAY pager, complies with all EU requirements in accordance with Directive 2014/53/EU (RED).

Product description: HF paging transceiver

ID marking: 500RX2WAY, Class 1 Equipment

In accordance with: 2014/53/EU European Radio Equipment Directive (RED) and 2011/65/EU Restriction of Hazardous Substances (RoHS), and the following harmonised European standards have been applied:

- Health & safety: EN 60950-1:2006 + A11:2009 + A1:2010 + A12:2011 + AC:2011 + A2:2013
- Electromagnetic compatibility: EN 301 489-1 V2.1.1, EN 301 489-3 V1.6.1
- Use of the radio frequency spectrum: EN 300 220-2 V3.1.1
- Assessment of hazardous substances: EN 50581:2012



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A handwritten signature in black ink, appearing to read 'P. KONSTAPEL', is written over a faint, light blue 'OMIKRON' watermark.

P. Konstapel, CEO — Vierpolders, 1-1-2026

Overview and operation



Overview of the controls

1. Error detection of repeaters and status of Alert menu transmissions.
2. Time and battery level.
3. Alert menu activation – press for the menu or long-press the side button.
4. System Setting – press for settings and enter the PIN code.
5. Power off – press the icon.
6. Transmitter Settings setup – press the icon and enter the PIN code.
7. Main menu – press for the menu.
8. Pogo pin charging port.
9. Menu item – repeat beep function on/off.
10. Clone function available for PC.
11. Built-in alarm clock with 3 configurable alarms.
12. 4 alphanumeric messages with status visible on the screen.
13. Easy setup of system code and system settings.
14. Incoming message alert with buzzer, LED and vibration motor.
15. Buzzer volume adjustable from level 1 to 10.

Important instructions

1. Powering on: press and hold the side button until the display turns on.
2. Always make sure the magnetic charging contact of the charging cable does not short-circuit against metal parts; use the supplied spacer for this purpose.

1. System Settings

Enter the PIN CODE for the left menu: 7531 *

1.1 Date, time and time calibration

“Menu” → “System Setting” → “Date/Time” → “Time Calibration”.

Set the number of seconds the clock has run fast or slow over the past 30 days (see Pic 1). Example: the clock runs 2 seconds fast per day — enter -60. If the clock runs 2 seconds slow per day, enter 60.

Please enter	Date format	Date	Time	Time error in sec. per 30 days
	YYYY/MM/DD			
	DD/MM/YYYY			
	MM/DD/YYYY (default)			

Pic 1 – Date/time setting screen

1.2 Auto Clear Time

“Menu” → “System Setting” → “Auto Clear Time”.

Sets the number of seconds that messages remain on the screen. The pager can display up to 4 messages until they are swiped away or the Auto Clear Time has elapsed (see Pic 2).

System Settings			
Date/Time			
Backlight Time (15)			
Auto Clear Time (300)			
Alarm Clock			
return	up	down	ok

Pic 2 – System Settings menu

1.3 Backlight Time

“Menu” → “System Settings” → “Backlight Time”.

Sets the number of seconds the backlight remains active. The longer the backlight stays on, the faster the battery drains. Maximum 240 seconds (see Pic 3).

System Settings			
Date/Time			
Backlight Time (15)			
Auto Clear Time (300)			
Alarm Clock			
return	up	down	ok

Pic 3 – Backlight Time

1.4 Buzzer volume

The buzzer volume can be set from level 1 to 10; the higher, the louder (see Pic 4).

System Settings		Buzzer Volume	
Backlight Time (240)			
Auto Clear Time (300)		6	
Alarm Clock		-----	
Buzzer Volume		return	- / +
return up	down ok		

Pic 4 – Buzzer Volume

1.5 Prompt mode

Choose how the pager signals when it is called, and how often (see Pic 5).

1.6 Battery Low Level

Set the level at which the “battery low” warning is given (see Pic 6).

System Settings		Set Level 1 – 10	
Alarm Clock			
Buzzer Volume		6	
Prompt mode		- - - - -	
Bat Level Setting		return	- / +
LEVEL 1 - 10			
back up	down ok		

Pic 5 / Pic 6 – Prompt mode and Bat Level Setting

1.7 Language

Choose the desired language: Dutch, English or German (see Pic 7).

System Settings		Choose
Language		Dutch English German
English		
back up	down ok	

Pic 7 – Language selection

1.8 Password (PIN code)

Set the PIN code for the left and right setup menu (see Pic 8).

System Settings		4-digit PIN code, left or right menu
Auto Clear Time (300)		Default 7531 or 1357
Alarm Clock		
Buzzer Volume		
Password		return - +
Enter 4 digit code		
back up	down ok	

Pic 8 – Setting the PIN code

IMPORTANT! Remember and write down the PIN CODE after changing it, otherwise the pager will no longer be accessible.

1.9 Message TIP – repeat signal

Set whether you want a repeat signal after a received call (see Pic 9).

System Settings		Yes or NO
Auto Clear Time (300)		
Alarm Clock		
Buzzer Volume		- - - - -
Message TIP yes		return - +
back up	down ok	

Pic 9 – Message TIP

* The repeat signal is active every 10 seconds as long as the Auto Clear Time is running.

1.A Factory settings (RESET)

Resets all changed settings back to the default values. NOTE! This cannot be undone.

1.B Clone

Activates the connection to a PC/laptop with cloning software. Note: the Omikron CallHelp 500CS is required.

2. Transmitter and system settings

Enter the PIN code for the right menu: 1357 *

2.1 STUDY – registering a transmitter (System Setup)

For use with Omikron CallHelp 400TX, 500RX2WAY, 500RP, 500TXBTTN and 500TRX-IO with a 3-digit system code. In the main menu select “Transmitter Setting”, then “Study”. Then activate the transmitter button:

- Mode 400TX: press “CANCEL”
- Mode 9L: press “0”
- Mode 9LPlus: press “0, 1, 2, 3, 4, 5, 6, 7, 8, 9” for the desired pager number
- Mode 999L: press “xxx 000” — xxx is the pager number 000 – 999, followed by pressing CallHelp

Transmitters	Study	Study
Study		TIP
Name		Study Successful
Delete		
All Delete		
Test		
return up no ok	back	back

Pic 10 / 11 / 12 – Transmitter menu and Study

2.2 NAME – standard stored alphanumeric message codes

9L, 9LPlus, 99L mode	999L mode
1 RECEPTIE MELDEN	001 RECEPTIE MELDEN
2 BHV	002 BHV
3 EHBO AED	003 EHBO AED
4 AGRESSIE	004 AGRESSIE
5 OVERVAL	005 OVERVAL
6 BOMMELDING	006 BOMMELDING
7 BRAND	007 BRAND
8 ONTRUIMEN	008 ONTRUIMEN
9 OEFENING TEST	009 OEFENING TEST
10 EINDE OEF CAL	010 EINDE OEF CAL

Pic 13 – Standard messages

2.3 NAME EDIT menu

2.3.1 NAME – changing a transmitter message code

To work with the various panic buttons, they must be registered in the 500RX/500RX2WAY pager. In the menu press “Transmitter Settings” → “Name” and enter the number.

2.3.2 Entering text for wireless buttons

Create your own text messages for Omikron CallHelp 500TXBTTN emergency and panic buttons, 500TRX-IO or the 500RX2WAY pager. Example: a button with code “555” means “ALARM DESK 16”.

“Menu” → “Transmitter Setting” → “Name Button Function”; choose the number to edit (example: 555). Press the “up/down arrow” to select a letter (e.g. A), press the “right arrow” to move the cursor to the right. Repeat the entry until, for example, “ALARM DESK 16” and press “Save” (see Pic 14 – 16).

Name Button	Number 000 (free choice)	XXX (example)
Function 555	END CAL	Choose a number, e.g. 567
Cancel		Enter name
Name entry: ALARM DESK 16	Name entry: END CAL	Save
^ > V Del Next Save	^ > V Del Next Save	

Pic 14 / 15 / 16 – Entering text

* After entering, press the side button to leave the menu.

2.4 DELETE memory and DELETE ALL memories

CAUTION! This cannot be undone!

“Del xxx” deletes one transmitter (see Pic 18 – 20). “All Delete” deletes all pager numbers and messages stored in the 500RX pager. After pressing, wait a moment until deletion is complete, then press “back” (see Pic 21 – 23).

Transmitter	Delete xxx	DELETE xxx
Study	Activate transmitter now	xxx Deleted
Name	1 10 100	-1 -10 -100
Delete	-1 -10 -100	
Delete All	<	X
back up down ok		

Pic 18 / 19 / 20 – Deleting one transmitter

Transmitter	Delete All	All Delete
Study	Are you sure?	
Name		
Delete	yes no	
Delete All		
return up down ok	back up down ok	< X

Pic 21 / 22 / 23 – Deleting all

* After entering, press the side button to leave the setup menu.

3. ALERT menu

3.0 Activate the alarm menu by long-pressing the side button or via the main menu *



Pic 24 – Alert menu (screen text depends on programmed messages)

For sending 4 emergency or follow-up alerts to another 500RX2WAY pager, 500RX or 500TRX-IO module.

Example: press button 1 to call pager 100 with “ALARM DESK 16” (code 555). To edit the text messages, see “Menu” → “Transmitter Setting” → “Name Button Function”; choose the number, see the screen example with 555.

Alert Button Function	Number xxx xxx xxx	XXX (example)
SILENT MODE: all beeps off, for security	123 100 555	Pressing key 1 calls with system code 123, pager number 100 and message code 555
BUTTON 1 entry: system code, pager number, message code	^ > V Del Next Save	
^ > V Del Next Save		

Alert button functions

* After entering, press the side button to leave the setup menu.

3.A TEST mode *

The TEST mode [TEST] is for testing the transmission range or reading out the 400TX, 500RX2WAY, 500RP, 500TXBTTN and 500TRX-IO (see the user manual). Activate the transmitter of the test system. The display shows the received system code, pager number and message code.

3.B Exx mode (only for use with 500RP repeaters) *

The Exx mode [Exx] shows on-screen error messages from the 500RP repeater.

3.C Cxx mode

The Cxx mode [Cxx] shows on-screen repeater messages from the 500RP repeater.

3.D Exx/Cxx mode

The Exx/Cxx mode [Exx/Cxx] shows on-screen the Exx/Cxx messages as received (only available if configured in the 500RP repeaters).

* All available functions, technical specifications or operation may be changed by Omikron Europe at any time without prior notice.

Upgrade 500RX2WAY Pager v2.1

1. Option to display the name of a person or group on the main screen, for example [GROEP 7] or [AMBER].



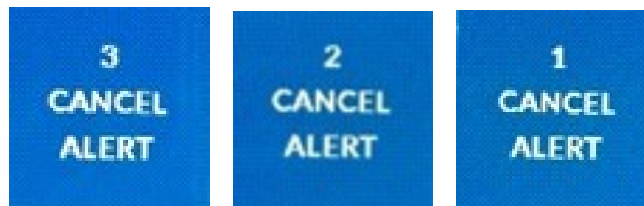
Main screen with group name

2. Direct alarm with the side button (emergency button), can be set on or off (1st call *). With the Auto Alert setting "On", the emergency call is transmitted immediately when the emergency push button on the side is pressed. The emergency call in the 1st position (marked with *) is then transmitted.



Transmitters menu with Auto Alert

3. Adjustable countdown time so that, after pressing the emergency button, the activated emergency call can still be cancelled, with a visible countdown on the main screen. Press the text icon before the countdown has elapsed to stop the emergency call before it is transmitted. Set to "0" for immediate calls without delay. Example: setting with a 3-second countdown delay:



Countdown: 3 – 2 – 1 CANCEL ALERT

The pre-programmed message memory has been extended with the "battery low" message of the v2 emergency buttons, from 900 – 999, with [BAT LOW BTTN 001] – [BAT LOW BTTN 099].