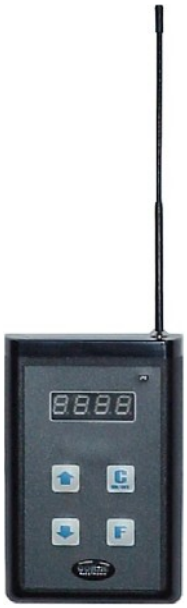
Producent Urządzeń Radiowych

GORKE ELECTRONIC

USER MANUAL
device type **OBI 3SH** PAGER



TECHNICAL PARAMETERS

Frequency	433,92 MHz
Transmission	rolling code KeeLoq ® Microchip Technology)
Number of keys	4
Type of receiving module	superheterodyne
Sensitivity	-115 dBm
Power	1xbatery 9V/ 6F22 (standard) or nickel metal hydride rechargeable NiMH 8.4V / 170mAh
Memory capacity	500 transmitters
Event log	500
Acoustic signaling	the duration of signaling: 20s
Repeating signal	every 30s until cleared
Dimension (mm)	65*100*24
Color	black
Compatibility	any GE sender (except NRP 102K), retransmitter type RTS 100
Operating range (m):	from 150 to 800 depending on the transmiter*

Pager has acoustic signaling of low battery condition and their transmitters it conects.
Sold complete with antenna and belt clip.

***** Operating range

150 m	Remotes type PUK
300 m	The hermetic PNH 201
500 m	Panic remote PUK 303
800 m	retransmiter RTS 100, remote controls high-range RNB and stationary transmitters type NRP

The reported ranges refer to the open space (without any obstacles, when the pager and the transmitter can "see" each other). If between pager and transmitter are obstacles, there should be a reduction in the operating range respectively for: wood and plaster of 5-20%, 20-40% brick, reinforced concrete by 40 - 80%. With the many obstacles we advise to use retransmitters or stronger remote controls. For metallic obstacles applying radio systems is not recommended.

1. ON - Turn on/off the device.

- **start** – hold C until the string ON appears.
- **stop** – hold C until the string OFF appears.

Standby PAGER is indicated by the flashing LED.
After switching PAGER performs a power supply test, the completion of which is indicated by switching on of all segment display. Procedures PROGRAM, EDIT and CLEAR must be performed after completion of the test power.

2. WORKING STATE.

PAGER receive the signal from the programmed transmitter causes: switching sound signaling,
Display programmed description of the transmitter (3.4) and briefly displays the number of memory cells
PAGER under which the transmitter has been programmed. The signaling continues for 20s, then is recalled.

- key ↑/↓ - Viewing alarms
- key C - Clearing alarms

During the reset alarms first pressing C cancels the audible signal, the second pressing deletes the record on the display and memory PAGER.

3. PROGRAM / DELETE / EDIT SENDERS

3.1 Entry into the programming mode.

1. LED must flash.
2. Press [F] until the LED remains lit and on.
3. Press [↑]
4. The [F] key can be released and immediately release the [↑] key (in maximum 0,5 s).
5. Enter password – display YES (enter the wrong password - long beep).

3.2 PROGRAMMING TRANSMITTERS TO PAGER MEMORY.

1. Enter the programming mode(3.1).
2. Keys - [↑]/ [↓] select a cell memory - flashing - - - - (four lines) mean free cell
3. Press - [F] and let go – displayed: **.** (dot)
4. Press - [↑] and let go – displayed: **-** (dash)
5. Send a signal from the transmitter * – display: **- -** (two dashes)
6. Resend the signal from the transmitter - display: - - - (three dashes), and then flashing: 0 0 0 0 (four zeros) which means the correct registration of the transmitter. NO message indicates an error so you should repeat steps 3-6.
7. Press - [C] – exit from programming mode.

If you need a one-time registration of more transmitters, you must repeat steps 2-6, and finally perform point 7. Hold down - [↓] or [↑] for more than 3s, you can quickly view memory.

Warning! Each button remote control is treated as a separate transmitter which means the need for programming into PAGER memory all keys on the remote control if they all have to be recognized by PAGER.

* Programming the remote control or a button press 201 PNH, a programming fixed transmitters trigger the transmission, eg. press TEST.

MESSAGES ON DISPLAY:

- - - -	(Four lines) memory cell is free
F U L	memory cell occupied by a transmitter
N O	mis-recording of the transmitter
J E S T	transmitter is already programmed in the memory
A K U Lo	low power state
Lb	low battery transmitter

3.3 DELETE transmitters from the memory of PAGER.

1. Enter the programming mode as 3.1.
2. Keys - [↑]/ [↓] specify a transmitter memory.
3. Press - [F] and let go, dot on the display
4. Press - [C] and let go, will be displayed flashing **- - - -** (four lines), which means erase a transmitter from the memory.
5. Press - [C] - the reset mode.

If you need to delete more transmitters, repeat point. 2-4, and finally perform point 5.

3.4. Edit - transmitter DESCRIPTION.

1. Enter the programming mode as in 3.1.
2. Keys - [↑]/ [↓] specify a transmitter memory location.
3. Press - [F] and let go it displays a dot.
4. Press - [↓] and let go – first item on display blinks.
5. Keys - [↑]/ [↓] select the desired character or number.
6. Press - [F] it goes to next position on display.
7. Press - [C] to exit the menu transmitter name entry.
8. Second press [C] exits edit transmitter mode.

If you need to enter descriptions for more transmitters, repeat point. 2-7, and finally point 8.

4. SPECIAL FEATURES.

4.1. Password change

1. LED must flash.
2. Press - F until the LED remains lit.
3. Press - ↓
4. Release F key and immediately release ↓ (maximum 0.5s).
5. Enter old password.
6. Enter new password (any combination of the keys ↑ ↓ F C 4 characters).

4.2. Signaling PAGER low power state.

- **BAT** – must be set if PAGER is powered by a 9V battery
- **AKU** – be set if PAGER is powered by a 8.4V battery / NiMH (Nickel Metal Hydride)

Changing the type of power without a change in the settings (BAT / AKU) will malfunction PAGER.

4.3. Selecting the operating mode.

- **PNH (frequent monitoring)**– if PAGER is to receive signals directly from the transmitter or retransmitter.
- **RTS (longer pause in listening)** – if the system signals from **all** transmitters are passed by **retransmitter** (type RTS 100).

RTS Mode allows extra time for battery "life", but it requires that all signals from the transmitters were transmitted by the retransmitter. Due to the fact that PAGER in this mode goes to sleep for a longer period of time, it cannot "hear" short signals from transmitters. The signal from the transmitter by a retransmitter is extended accordingly.

4.4. The choice of memory capacity.

This parameter allows you to specify the maximum number of transmitters that can be programmed into PAGER memory from 10 to 500, in increments of 10 transmitters. The greater the number of transmitters closer to the memory limit makes the reaction time slightly higher (1s with a limit of 500).

4.5. Erasing memory „KASO"

This item is used to delete the **total** memory pager. For the functions safety has been additionally protected with a password. Providing an incorrect password takes you "out" to normal operation without the pager erasing the memory.

Programming SPECIAL FEATURES

1. LED must flash.
2. Press - ↓ until the LED remains lit.
3. Press - ↑
4. Releaase the ↓ key and quickly release the ↑ key (maximum 0.5s).
5. Enter password.
6. Press - F please go to AKU/ BAT.
7. Press - C and release.
8. Whith the ↑/ ↓ keys select the PNH/ RTS mode.
9. Press the key C and release it.
10. The key ↑/ ↓ selects the desired maximum number of transmitters that can be program in the memory of the pager.
11. Press the key - C and let go – it shows „KASO" – memory erasing.

* Pressing the key C exits the programming mode without erasing the memory of transmitters
* Pressing the key F then re-enter the password, which will erase all transmitters from memory. Wait until the pager reaches the position of 4499, after which it automatically exits the reset function.

5. EVENT LOG.

If PAGER receives and decodes the signals from the transmitters, and they will not be deleted, it will be automatically preserved in the memory of events. Then, every 30s PAGER gives out two short beeps that will remind of the signals stored in the memory of events.

You can use at any time the specific keys ↑ / ↓ to view the event log, also you can press the key C to delete individual events (remembering that the first resets audible signal, then the information from the display).
After a power cut memory of the event is canceled. The event memory can be read up to 500 events back.

6. POWER.

PAGER can be powered from a 9V alkaline battery type 6F22 or nickel-metal hydride battery type NiMH 8.4V min. 170 mAh, the PAGER ca not be used to charge the battery.
PAGER operating time in standby mode (hours):

	PNH mode	**RTS mode**
Rechargeable battery	**~ 80**	**~ 160**
Battery	**~ 260**	**~ 500**

The measurement was performed for battery VARTA INDUSTRIAL 9V NiMH battery 8.4 V / 170 mAh under "radio silence".
PAGER working time is reduced significantly and is dependent on the amount of the received signals.
Low battery or battery is signaled by a short beep generated every 1 minute of a 20 minutes cycle signal / 10-minute break. 10 seconds before the complete exclusion PAGER is generated continuously beeps and displays a message AKU Lo.

7. DEFAULTS.

Indication of low power	BAT
Operating mode	PNH
Password	4 x keys ↓ ↓ ↓ ↓
Memory capacity	100 transmitters

8. NOTES.

Occasionally it can happen that the PAGER beeps, but nothing appears on the display. If that happens, wait a few / several seconds until the display shows information from the received transmitter. This happens when at the same time the signals are coming from more transmitters at a time.
Analogously to the previous situation, it may happen that PAGER received signal from the transmitter and displays about it and beeps, but by pressing the C button nothing happens, in such a situation also, wait a few / several seconds until the information is erased. This happens when at the moment of alarm reset, a new information is coming from other transmitters.

When PAGER over analyze newly received signals, it will automatically execute the clear command of the "old" alarm. PAGER remembers previously pressed reset button. PAGER will work for as long as possible on battery - it was designed primarily to work with press airtight PNH 201. If the PAGER transmitters are to cooperate whit NRP stationary or portable remote controls it must be ensured that the transmission of the signal from such transmitter lasts a minimum of 0.5s. Shorter then 0.5s may result in erroneous decoding by PAGER, which ultimately causes no reaction to the signal.