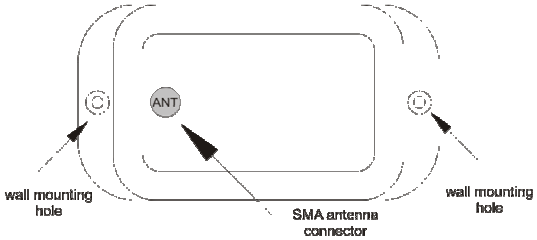
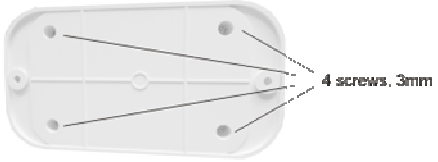
7 "Iskarsko shausse" blvd, building 4
1528 Sofia, Bulgaria
tel/fax: +359-2-9758105
www.gineers.com
office@gineers.com

3. General view



4. Power supply connection

To connect power supply do the following:
1) Open WMBRP box - 4 screws at the back of enclosure
2) connect Line and Neutral to power supply terminal block (shown on the picture)



1) Open the enclosure

2) Connect power supply on Terminal block

5. Warranty

The warranty of the device is limited to 2 years from the date of sale. If the device shows any defect or malfunctions during that period, the manufacturer is obligated to repair the device in its own service for manufacturer's expense, or, if the repair is impossible, to replace the device with new one. The transportation costs to the manufacturer's service are due to the client. The warranty voids if this manual' instructions are not met, warranty seals are removed or the device was opened by unauthorized by the manufacturer personnel.

Date of sale:..... Signature:.....

6. The package contains

- WMBRP - 1 pc.
- 868MHz RF 1/4 antenna, external
- Instruction manual - 1 pc.

7. Manufacturer

Gineers Ltd.
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Wireless m-bus repeater **WMBRP-42** **WM-BUS Series**

Instruction manual

WMBRP is a wireless m-bus repeater, intended to re-transmit data from various devices, working in modes T, S or C according to wireless m-bus standard (EN13757-4). WMBRP has the following main features and characteristics:

- radio interface in 868MHz range for communicating with external device (computer, communication device/controller, etc.)
- quarter-wave antenna with centre frequency 868MHz
- power supply, working in range 140-250Vac

1. General technical data

- RF band – 868 - 870 MHz
- Wireless m-bus modes - **T, S or C**
- power supply – 140-250Vac
- max. power consumption – < 0.5W
- ambient temperature, operating – -20÷+50 °C
- ambient temperature, storage – -50÷+85 °C
- air humidity, operating & storage – 40÷90 %
- dimensions (L/W/H) – 120/65/35 mm (without antenna)
- protection class - IP31
- weight – 200 g

2. WMBRP operation

WMBRP starts work immediately after power supply is plugged in. By default device accepts and re-translates all valid wireless m-bus telegrams in the air without delay. It works in mode T1, but can also be set in modes S or C (optional). WMBRP does not transform in any kind received telegrams before re-transmitting them, except setting "repeat" bit in status byte of the telegram. This is due to EN 13757 standard and is necessary in order all other devices to know this telegram is repeated.

If the user wants to make more sophisticated settings of WMBRP then the following can be done:

- filter by Mediums can be set
- filter by Manufacturer can be set
- filter by ID can be set

The above means that WMBRP will re-translate only selected telegrams. Each global filter can have up to 8 values. For instance one can tell repeater to re-transmit only telegrams, coming from meter, manufactured by GIN or BMT.

Filter by ID uses wildcards. Only IDs in the air that match to one of the up to 8 filter values will be transmitted. For example, setting filter to "12FFFFFF" will apply for all devices, which serial number starts with "12".

All these settings can be made only through radio interface of WMBRP and special software. User should also have an USB radio transceiver (like WMR-IoT) in order to communicate with WMBRP through the air. Each repeater should have unique ID number, on which it communicates with setting software.