
MIKSTER[®]

Sp. z o.o.

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and Electronics Innovation and Implementation Enterprise

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WARRANTY CERTIFICATE

Serial no:

DATE OF SALE

The hereby warranty confirms the high quality and proper operation of the product.

Warranty is valid for 12 month from the date of sale.

Warranty obliges the producer to remove free of charge all defects of the sold product in 14 days from the delivery of a faulty product to the service.

WARRANTY CONDITIONS

1. Eksploitation of the device should be performed in accordance with its destination and the User's Manual.
 2. The guarantee expires in the following cases:
 - Breaking of the leaden seal,
 - Mechanical damages,
 - Damages caused by improper exploitation,
 - Corrections in the Warranty Certificate, unless changes were introduced by the producer.
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The guarantee does not include damages occurred during the transportation.

3. Warranty Certificate is valid together with the Sale Receipt.
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SEAL

LGRR-01 Relay station User's Manual

Application

LGRR-01 relay station is used for radio range extension of radio system Logginet Radio.



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Installation of the LGRR-01 Relay Station in the Radio System

1. Enter the LGRT-01 Transmitting and Recording Switchboard in the configuration state ¹⁾. In order to do this the central, into which relay stations are to be connected, should be marked in the window: „*Recording units list*” followed by pressing of the key „*Instal.radio*”. The Radio-Central confirms being in the configuration state by lighting the control lamp  every second.


1) This procedure is not needed when the Registering Central is already in the configuration state.

2. Connect the power supply, 110 VAC, to the LGRR-01 Relay Station.
3. Enter the Relay Station in the measuring mode for the signal of the radio network:
 - Press and hold the button until both control lamps light,
 - Press this button 3 times,
 - The Relay Station signals entering in the measuring mode by cyclic flashing the control lamp  - every second.
4. Find the place for the Relay Station, in which the signal level is at the maximum.

The Relay Station indicates the signal level by cyclic flashing of the control lamp . The number of light impulses indicates the signal level (no impulse => no signal; while 8 impulses => the strongest signal). The frequency of repetition of impulse series depends on the number of relay stations registered in the system and it is the smaller the more numerous are relay stations.

5. Adding a Relay Station into the system:
 - Press and hold the button until both control indicators light,
 - Press this button 5 times,
 - The Relay Station signals entering into the logging mode by cyclic lighting of both control indicators (with a period of 1 second),
 - The Relay Station confirms its logging in to the system by series of light impulses in the control indicator .

- After logging in the Relay Station automatically enters the mode of normal operation.

When the procedure of addition is properly completed the Relay Station periodically lights the control indicator .

Technical Data

- Overall dimensions: 82x80x57mm (including terminals: 82x184x57mm)
- Protection level: IP65
- Power supply: 230 VAC, (110V AC, 6...12V AC/DC against order)
- Power consumption: 7mA/6..12V DC, 0.15W/230V AC

Electrical parameters of relay station

Sensitivity: -100dBm,
Transmitter power output: <10dBm,
Operating frequency: 433, 302 MHz,
Modulation type: FSK,
Transmission speed: 19 200 b/s,

Expected range increase between the switchboard and sensor

- open area - up to 200m,,
- rarely built-up area - up to 100m,,
- densely built-up area - up to 50m,

Range will be reduced in the presence of strong man-made interference and is dependent on individual characteristics of the area, where the system is installed, that is topographic features, height of installation, distance from large metal surfaces, and thickness of walls in radio link way and material the walls are made of.