TSG-60 GSM SERVICE TRANSMITTER

Purpose

The TSG-60 service transmitter is a device that enables to send information in the form of SMS messages about events recorded by the POLON 6000 fire alarm control panel. The transmitter uses GSM networks to send SMS messages.

Principles of operation

The transmitter uses two types of GSM networks for its operation: LTM-M1 and NB-IoT. These are two technologies for communication directed to the Internet of Things (IoT) and devices with low power consumption. LTE-M1 (LTE-M) and NB-IoT (Narrowband IoT) have a certain advantages in locations where the standard LTE networks may face strains.

Communication with the addressable POLON 6000 control panel is performed via serial port in the RS-232 standard.

The TSG-60 is configured from the PSO-60 operator panel. It enables declaring the kind of events to be sent to defined users, specify the phone numbers and number of recipients.

The device uses a LANTRONIX M113F00FS modem with POLON-ALFA configured software.

Technical specifications

GSM frequencies used	LTE CAT M1 / NB1 MODULE, PASMA LTE 2, 3, 4, 5, 8, 12, 13, 20, 25, 28
Antenna connection	SMA
SIM card voltage	1.8/3V
Power Supply	8 ÷ 32 VDC
Maximum current consumption	125 mA
Connection with addressable panels	RS232
TSG-60 communication protocol with POLON 6000 control panels	AT commands
PC Connection	USB (USB-RS232 adapter)
Dimensions	74.3 mm x 60 mm x 21.7 mm (89.3 mm x 60 mm x 21.7 mm - including antenna)
Mass	Not exceeding 100 g
Operating Temperature	-40 °C to +85 °C