



TSR-4000 PARALLEL INDICATION TERMINAL

Overview

The TSR-4000 parallel indication terminal is a microprocessor based unit designed to collaborate with the POLON 4000 system fire alarm control panels. It operates as a remote signalling and operation unit. Even as many as 16 TSR-4000 terminals may be connected to one control panel.

Functionality

The TSR-4000 terminal enables duplication of information transmitted by the POLON 4000 system fire alarm control panels. The terminal repeats signals given off by the connected POLON 4000 system fire alarm control panel, which are alarm and fault communiques, blockings, test and technical alarms. An fire alarm can be acknowledged and then the fire alarm can be reset from the terminal level. The terminal can perform self-tests of its internal units and signal their fault/malfunction. The efficiency of the terminal signaling elements can be tested. Access to the adjustable elements and particular functions is differentiated and is available from four different levels.

Design

The TSR-4000 parallel indication terminal is designed in a shape of a cabinet, which can be fastened to the wall. The cabinet has a door carrying signalling, handling elements and a cylinder lock with a key for selection of the second access level. At the back wall of the housing panel, there are glands for RS 485 wire routing. There are also glands for mains power supply wiring and a board with supply module of potential and non-potential relay outputs assembly. On the left side of the panel there are two sealed openings for the RS 232 data interface system wiring and cable of an external computer keyboard.

The TSR-4000 terminal can be connected to the control panel using two-core screened cable (RS 485) or optical fibre one (this can be done if the terminal is equipped with an optical fibre converter). The distance from the fire alarm control panel to the TSR-4000 terminal cannot be longer than 1200 metres when using 1x2x0.8mm screened cable.

Technical specifications

Operating voltage:	
- main	230 V +10 % -15 %
- reserve supply	2 x 12 V / 7 Ah
Max. current consumption from mains power supply	< 80 VA
Max. current consumption from secondary battery during normal operation mode	100 mA
Non-potential, supervised relay outputs:	
- load current	1 A / 30 V
Potential, supervised output:	
- load current	0.5 A / 24 V
- end-of-line (EOL) resistor	10 kΩ ± 5 %; 0.25 W
Alphanumeric LCD display	4 x 40
Operating temperature range	from -5 °C up to +40 °C
Ingress protection	IP 30
Mass (without battery)	< 6 kg
Dimensions	314 x 368 x 106 mm