

# MHS 811

## Repeater Panel

The MHS 811 Repeater Panel is a simple upgrade element of the analog addressable Electric Fire Detection and Alarm System LITES, that indicates situations of connected C.I.E.'s MHU 110 and MHU 111, and enables their control.



The Repeater Panel can work in two basic modes - in an active or a passive one. In the active mode the Repeater Panel as a control panel permits, beside the signalling of the C.I.E.'s situation, also its full control. In the passive mode the Repeater Panel as a signalling panel displays only the situation of the C.I.E. without the possibility of its control. However on occasion it is possible to take the controlling competences also from the passive panel, and switch it over into the active mode (the current active panel switches over to the passive mode). It is possible to connect at most 3 panels and 4 C.I.E.'s to a system.

The Repeater Panel complies with the standards ČSN 34 2710, ČSN 73 0875 and ČSN EN 54-2.

### Technical specifications

Power supply	C.I.E. MHU 110, MHU 111
Power supply range	(9 ÷ 27) V <sub>ss</sub>
Current consumption:	
- inactive	130 mA
- at alarm	150 mA
- at a test	200 mA
Signalling:	
Optical	LED, display 4 x 40 characters
Acoustic	internal piezoelement
Signalized situations of connected C.I.E.'s	
Alarm	General, C.I.E. number, detector address, location of fire
Fault	Generally, outputs, transmission, system, sources, accumulator, short circuits and interruptions of loops with detectors and other devices, grounding
Switch-off	Generally, outputs, transmission, siren, detectors, external devices
Other	Operating, standby supply operating, DAY-mode, transmission activation, siren activation
Inputs	
Optoinsulated inputs	6 x (5 ÷ 30) V
Supervised outputs	
Relay potential outputs	Voltage in compliance with the C.I.E.
Number	2
Output current (C.I.E. 0,5A)	0,05A (the maximum output current depends on the circuit's resistance between the panel and the supply C.I.E., voltage can stay in the required limits)

Not-supervised outputs	
Relay potential outputs	Relay - change-over contact max. 42 V, max. 1 A, 15 W, 30 VA
Number	2
Open collector	max. 30 V, max. 0,15 A (from outside resource)
Number	6
Communication channels	
RS 485 Line Interconnecting cable Attachable equipment	Simple/circle, max. 1km communication, shielded, paired upgrade computer, C.I.E. MHU 110, MHU 111, an other panel MHS 811, Relay Boxes MHY 907 and MHY 908
RS 232 Line Attachable equipment	1x insulated type, max. 15m printer
Attachable equipment	1x uninsulated type, max. 200m modem
Protection according to ČSN EN 60529	IP 30
Safety class equipment according to ČSN EN 61010-1	III
Radioscreening degree according to ČSN EN 55022	B-class
Dimensions	(320 × 245 × 66) mm
Weight	4 kg

### Working conditions

The MHS 811 Repeater Panel is intended for the interior of objects without occurrence of aggressive substances, and for places where its protection and climatic immunity conform, and where sudden temperature changes leading to dew and ice accretion don't occur.

Working temperature range	-5°C ÷ +40°C
Relative humidity	≤ 75%, 10 days in a year 95% on other days occasionally 85%
Atmospheric pressure	(86 ÷ 106) kPa
Mounting position	vertical on walls without vibrations

Version 03/2017