

Fire Control Panel FS4000



The fire control panel FS4000 is designed to operate with conventional automatic fire detectors and manual call points. The panel has outputs provided for external executive devices.

The unit is produced in four versions:

- 2 fire alarm lines – FS4000/2
- 4 fire alarm lines – FS4000/4
- 6 fire alarm lines – FS4000/6
- 8 fire alarm lines – FS4000/8

Technical features

Fire detection lines:

- Maximum number of fire detectors in a line: 32
- Type of the installation: two-wire
- Maximum resistance of a line: 100 Ω

Thresholds current values:

- Fault condition: 0 – 6 mA
- Duty mode: 6 – 16 mA
- Fire condition: 16 – 80 mA
- Short circuit: > 80 mA

Monitored fire alarm lines (EN54-2, type C):

- Number: 2 pcs
- Type: potential, relay with independent control
- Electrical characteristics: (19-27.5)V DC/1A

Common fire relay outputs:

- Number: 2 pcs
- Type: potential-free, 1 switching, 1 NO
- Electrical characteristics: 3A/125V AC, 3A/30V DC

Common fault warning relay outputs:

- Number: 1 pcs
- Type: potential-free, switching
- Electrical characteristics: 3A/125V AC, 3A/30V DC

Functional data:

- Identification of manual call points
- Zone dedicated label and Zone dedicated LED indication for fire, fault, disable
- Detection for removed fire detector
- Automatic reset of the fault warning condition
- Logical “AND” scenario for fire detection lines
- EN54-2 Disabled condition and Test condition per fire detection line and fire alarm line
- Direct mode (skip delay) function for each fire detection line
- Test-LED functionality
- Built-in buzzer for fire and fault condition – one tonal, continuous, can be suppressed
- Test mode for fire alarm lines
- Input for remote Reset fires operation
- 8 types optional scenarios for common fire outputs and fire alarm outputs
- Optional delay time for fire outputs activation - 1,2,3,4,5,6 or 7 minutes
- Evacuation condition - available on access level 2
- Optional zone dedicated relay module FD4201, each relay is common fire output corresponding to the relevant fire detection zone

- RS485 interface for network connection with Repeater panel - optional interface on the FD4201
- Dedicated status LED indicator for the RS485 interface - it is applicable for Fire Alarm Routing Equipment (EN54-2, type E)
- Access level 2 plastic key

Indications of registered events:

- Light indication: LED
- Sound: Built-in buzzer

Power supply:

- Voltage: (187-252)V AC
- Frequency: 50/60 Hz

Backup batteries:

- Battery type: lead, gel electrolyte
- Number of batteries: 2 pcs
- Nominal voltage of the backup battery: 12V
- Nominal capacity C20: (7,0) Ah
- Charge voltage: 28V DC

Operation in Duty mode upon interruption in main power supply:

Lines 24V / 1,2Ah:	Lines 24V / 4,5Ah:
2 lines – 32 h	2 lines – 120 h
4 lines – 24 h	4 lines – 98 h
6 lines – 20 h	6 lines – 80 h
8 lines – 16 h	8 lines – 68 h

Lines 24V / 7,0Ah:	
2 lines – 180 h	6 lines – 110 h
4 lines – 140 h	8 lines – 90 h

Consumption on backup batteries supply:

- Configuration of 2 lines: < 35 mA at 24V DC
- Configuration of 4 lines: < 45 mA at 24V DC
- Configuration of 6 lines: < 55 mA at 24V DC
- Configuration of 8 lines: < 65 mA at 24V DC

Power supply to external devices:

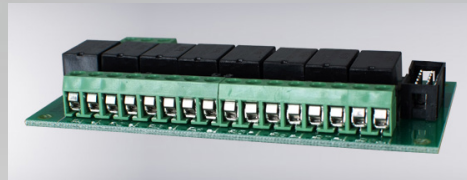
- Voltage: (19-27)V DC
- Maximum current value (including current of contr.outputs): 1,2A

Fuses:

- Main supply 230V: 4.0 A
- Backup battery: 6.0 A

Dimensions: 304mm x 222mm x 94mm
 Weight (backup batteries not included): 0.98 kg

Module FD 4201



Module FD 4201 expands the options of fire control panel FS4000. It allows:

- Connection of fire control panel FS4000 in a system of a repeater FS5200R and several remote fire control panels FS4000, FS5100, FS5200, FS5200E;
- Commanding the fire control panel from the repeater within a network of remote fire control panels;
- Control of a relay output for each line that is in Fire condition;

Relay outputs for Fire condition:

- Type: potential free, switching
- Power supply: 3A/125VAC; 3A/30VDC

Interface RS485:

- Network address: fixed – coincides with the serial number of the fire control panel
- Data exchange speed: fixed – 9600 bits/s.

Operational temperature range: from -5°C to +40°C
 Relative humidity resistance: max 93% at 40°C
 Dimensions: 180 x 65 x 25 mm
 Weight: 0,160 kg



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