# 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:
2 lines – 32 h
4 lines – 24 h
6 lines – 20 h
8 lines – 16 h

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

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