Fire Control Panel FS5100

Fire Control Panel FS5100 is an up-to-date, high reliable, multifunctional and versatile unit, providing the user with unexpected potential in the design, installation and operation of conventional fire alarm systems.

The FS5100 is certified by EVPU.

MORE THAN 10 DISPLAY LANGUAGES AVAILABLE

Technical features

Fire detection lines (2, 5 or 8):
– Maximum number of fire detectors in a line: 32
– Connecting line: two-wire
– Maximum resistance of a line: 100Ω

Monitored fire alarm lines (EN54-2, type C):
– Type: potential
– Electrical characteristics: (24±5)V/100 mA

Common fire relay outputs (2 or 5):
– Type: potential free, switching
– Electrical characteristics: 3 A/125 V AC; 3 A/30 V DC

Common fault warning relay outputs:
– Type: potential free, switching
– Electrical characteristics: 3 A/125 V AC; 3 A/30 V DC

Indications of registered events:
– Light indication: LEDs
– Text messages: LCD display – 1 line, 16 symbols, Latin/Cyrillic characters, backlit
– Sound: Built-in buzzer

Access levels to control functions:
– 4 (in compliance with EN 54/2)

Power supply:
– Voltage: 220/230 V
– Frequency: 50 Hz

Backup batteries:
– 2 x 12 V / 7 Ah

Operation in duty mode upon interrupted mains supply:
– Minimum configuration: 46 h
– Maximum configuration 32 h

Consumption on backup batteries supply in duty mode at 24 V:
– Minimum configuration: <150 mA
– Maximum configuration: <220 mA

Power supply to external devices:
– Voltage: (24±5)V
– Maximum current value (current of monitored outputs included): 1,3 A

Weight (backup batteries not included): 5,2 kg
Dimensions: 445 x 327 x 87mm
Operating temperature range: -5 °C to +40 °C
Relative humidity: to 93 %
Degree of protection: IP 40

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UniPOS

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
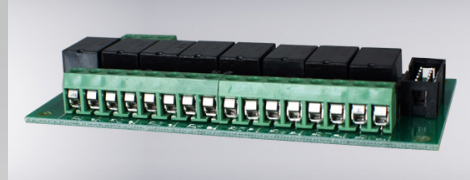– Configuration of 8 lines: < 65 mA at 24V DC

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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Fire Control Panel FS5200

The Fire Control Panel FS 5200 is a modern, highly reliable, multifunctional and versatile unit, providing the user with unexpected potential in the design, installation and operation of conventional fire alarm systems.

The FS5200 is certified by EVPU.

MORE THAN 10 DISPLAY LANGUAGES AVAILABLE

Technical features

Fire detection lines (8, 16, 24 or 32):
– Maximum number of fire detectors in a line: 32
– Connecting line type: two-wire
– Maximum resistance of a line: 100 Ω

Monitored fire alarm lines (EN54-2, type C):
– Type: potential
– Electrical characteristics: (24±5)V/500 mA

Common fire relay outputs (2, 10 or 5):
– Type: potential free, switching
– Electrical characteristics: 3 A/125 V AC;
3 A/30 V DC

Common fault warning relay outputs:
– Type: potential free, switching
– Electrical characteristics: 3 A/125 V AC;
3 A/30 V DC

Indications of registered events:
– Light indication: LEDs
– Text messages: LCD display – 4 lines, 20 symbols
– Sound: Built-in buzzer

Access levels to control functions:
– 4 (in compliance with EN 54/2)

Power supply:
– Mains: 220/230 V
– Frequency: 50 Hz

Backup batteries:
– 2 x 12 V / 12 Ah

Operation in duty mode upon interrupted mains supply:
– Minimum configuration: 80 h
– Maximum configuration 30 h

Consumption on backup batteries supply in duty mode at 24 V:
– Minimum configuration: <155 mA
– Maximum configuration: <400 mA

Power supply to external devices:
– Voltage: (24±5)V
– Maximum output current (current of controllable outputs included): 1,5 A

Weight (backup batteries not included): 6,6 kg
Dimensions: 450 x 355 x 115 mm
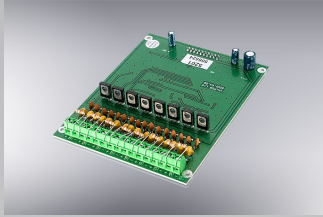Operating temperature: -5 °C to +40 °C
Relative humidity: to 93%
Degree of protection: IP 40

Functional data:
– Automatic reset of the fault warning condition
– Logical "AND" scenario for fire detection lines
– Fully programmable from the display user-friendly menu structure
– Modular fire alarm panel with optional modules for fire detection lines and fire alarm lines
– Optional scenarios for common fire outputs and fire alarm outputs
– Compatible with third party fire detectors with the zone-individual programmable threshold current values
– Real time clock and Event log of 2500 events

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UniPOS

Extension modules

Extension module 5201
– 8 fire detection lines

Extension module 5202
– 8 fire detection lines
– 1 monitored fire alarm
line

Relay extension module 5203
– 8 common fire relay outputs

Relay extension module 5204
– 16 common fire relay outputs

Interface module RS232/485
Provides communication between fire alarm control panels types FS5100, FS5200 and FS4000 with repeater type FS5200R products of UniPOS.

Possible configurations

FS 5200:
– 8 fire detection lines
– 1 monitored fire alarm line
– 2 common fire relay outputs

FS 5200 + 5201:
– 16 fire detection lines
– 1 monitored fire alarm line
– 2 common fire relay outputs

FS 5200+5201+5202:
– 24 fire detection lines
– 2 monitored fire alarm lines
– 2 common fire relay outputs

FS 5200+5201+5202+5201:
– 32 fire detection lines
– 2 monitored fire alarm lines
– 2 common fire relay outputs

In each one configuration it is possible to add just one module 5203 or 5204.

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Interactive Fire Control Panel IFS7002 1 signal loop

The Interactive Fire Control Panel IFS 7002 is an up-to-date, high reliable, multi-functional and versatile device, providing the user with unexpected potential in the design, installation and operation of addressable fire alarm systems.

Technical data

Physical configuration:
– 1 fire alarm loops
– 2 monitored outputs
– 1 relay outputs for fire condition
– 1 programmable relay outputs for fire condition
– 1 relay output for fault conditions

Fire alarm zones:
– Maximum number of zones – 64
– Maximum number of fire detectors and in-out devices – 60

Fire alarm loops:
– Maximum number of fire detectors in a loop – 125
– Connecting line – two-wire shielded
– Maximum resistance of a loop – 100
– Output resistance of a loop – 20
– Maximum consumption of a loop – 200mA

Monitored outputs: – 2 pcs
– Type – potential

Relay output for fire conditions – 1 pc
– Type – potential free, switching
– Electrical characteristics – 3A/125VAC; 3A/30VDC

Relay (programmable) output for fire conditions – 1 pc
– Type – potential free, switching
– Electrical characteristics – 3A/125VAC; 3A/30VDC

Relay output for fault conditions – 1 pc
– Type – potential free, switching
– Electrical characteristics – 3A/125VAC; 3A/30VDC

Performance:

– Control over fire alarm loops and monitored outputs for fault conditions (short circuit and interruption) and automatic reset
– Dedicated led indication per fire zone
– Detection of removed devices in the loops and automatic reset

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UniPOS

– Ability to set the zones in Coincidence Mode
– Two phases of Fire condition, programmable time for Fire condition stage I, separately for each zone
– Option to prolong the time period for Fire condition stage I with programmable inspection period, specified for each zone
– Built-in sounder for fire condition – one tonal, discontinuous, can be switched off
– Built-in sounder for fault condition – one tonal, discontinuous, can be switched off
– Built-in real time clock
– Set of test modes and options for adjustment

Setting the clock:
– Check-ups on light and sound indications
– Test of fire alarm zones
– Adjustment of outputs and integrated external devices
– Programming of parameters and modes of operation
– Remote programming of the parameters from distant operator control point

– Energy independent event log of registered events with the events type, date and hour – up to 1023 events
– Interfaces for communication with external devices – CAN 2.0B and USB.

Indications of registered events:
– Light indication – LED
– Text messages – LCD display, 320 x 240 points, backlit
– Sound signaling – built-in sounder

Power supply:
Mains:
– voltage – 220/230V
– frequency – 50Hz

Back up batteries:
– battery type – lead, gel electrolyte
– number of batteries – 2 pcs
– connection – serial connection
– nominal voltage of the back up battery – 2x12V DC
– nominal capacity C20 – 7Ah
– charge voltage – 28V

Consumption on back up batteries supply:
– at 24V – <160mA
– at 26V – < 150mA

Power supply to external devices:
– Voltage – (24±5)V
– Maximum current value (including current of monitored outputs) – 1A

Dimensions:
– Overall dimensions – 286 x 148 x 125 mm
– Weight (batteries not included) – 1.240 kg.

Interactive Fire Control Panel IFS7002
2 signal loops

IFS7002

**MORE THAN 10 DISPLAY
LANGUAGES AVAILABLE**

Features

– Fire Control Panel and all devices, connected to the signal loops, are fully programmable
– Detection of Fault conditions: short circuit or interruption in a loop, removed fire detector or swapped fire detectors
– Two signal loops (branch lines are optional) for connecting of the fire detectors, input or output modules, adapters, automatic extinguisher modules
– Automatic addressing of devices avoiding duplication of addresses
– Option for connection to dispatcher control point
– LED indication of the main events and conditions of the Fire Control Panel
– Built-in buzzer
– Graphic LCD display for text messages visualization
– Touch-screen activation of the buttons available on the graphic LCD display
– Dialogue menus in language required by the user
– Built-in real time clock
– Option for network operation with FS5200E Fire Extinguishing Control Panel
– A variety of Test modes and setup options
– Real-time clock set up
– Test mode for the light, sound indication and the touch-screen response
– Testing of the fire alarm zones
– Programmable 6 modes of activation for each addressable output and test procedure available for their triggering check
– Option for operation with a graphical software for control and visualization ''UniPOS-Intellect''

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Technical data

Fire alarm loops:
– signal: 2
– power: 1

Addressable devices in one signal loop: Up to 125
Cross section of the signal loop wire: (0.5-2.5) mm^2
Maximum resistance of the signal loop: 100Ω
Number of devices in one branch: Up to 32
Fire alarm zones: Up to 250
Addressable devices in one zone: Up to 60
Response time to activated detector signal:
Up to 10 seconds
Registered events by the counter of fire events:
Up to 9999
Registered events by the none voltage archive
memory: Up to 1023

Power supply:
– mains: 220/230VAC, 50/60Hz
– backup batteries: 2×12 VDC, 18Ah

Current consumption of power supply loop: Up to 1A

Outputs:
– monitored, potential 28V DC/1A: 2
– auxiliary supply 24VDC/1A: 1

Interfaces:
– RS 232 or RS 485: 1
– CAN: 2

Dimensions: 480 x 445 x 100 mm
Weight (batteries not included): 7.1 kg
Operating temperature: Minus 5°C to 40°C
Relative humidity: (93±3) % at 40°C
Degree of protection: IP 40

Interactive Fire Control Panel IFS7002
4 signal loops

The Interactive Addressable Fire Alarm System IFS7000 is designed for early detection and alarm of a fire condition, indicating the exact location of the fire or fault event.

The Interactive Fire Control Panel IFS7002 with four signal loops is designed to operate with addressable automatic fire detectors and manual call points. It controls addressable executive devices integrated into fire alarm loops.

MORE THAN 10 DISPLAY LANGUAGES AVAILABLE

Features

– Fire Control Panel and all devices, connected to the signal loops, are fully programmable
– Detection of Fault conditions: short circuit or interruption in a loop, removed fire detector or swapped fire detectors
– Two signal loops (branch lines are optional) for connecting of the fire detectors, input or output modules, adapters, automatic extinguisher modules
– Automatic addressing of devices avoiding duplication of addresses
– Option for connection to dispatcher control point
– LED indication of the main events and conditions of the Fire Control Panel
– Built-in buzzer
– Graphic LCD display for text messages visualization
– Touch-screen activation of the buttons available on the graphic LCD display
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– Real-time clock set up
– Test mode for the light, sound indication and the touch-screen response
– Testing of the fire alarm zones
– Programmable 6 modes of activation for each addressable output and test procedure available for their triggering check
– Option for operation with a graphical software for control andvisualization ''UniPOS-Intellect''

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Technical data

Physical configuration:
– 4 fire alarm loops
– maximum number of fire detectors in a loop: 125
– connecting line: two-wire shielded
– maximum consumption of a loop: 200 mA
– 1 power loop

Connecting line: two-wire
– maximum consumption of the loop: 1A

Monitored outputs: 2
Type: potential
– electrical characteristics:(19-27.5)V DC/1A

Common fire relay outputs:
– Type: potential free, switching
– Electrical characteristics: 3A/125V AC;
3A/30V DC

Common programmable fire relay outputs:
– type: potential free, switching
– electrical characteristics: 3A/125V AC;
3A/30V DC

Common fault warning relay outputs:
– type: potential free, switching
– electrical characteristics: 3A/125V AC;
3A/30V DC

Fire alarm zones:
– Maximum number of zones: 500
– Maximum number of fire detectors in a zone: 60

Indications of registered events:
– Sound signaling: built-in sounder
– Light indication: LED
– Text messages: LCD display, 320 x 240 points, backlit

Power supply:
– 220/230V; 50Hz

Backup batteries:
– Battery type: lead, gel electrolyte
– Number of batteries: 2 pcs
– Connection: serial connection
– Nominal voltage of the back up battery: 2 x 12V
– Nominal capacity C20: 18 Ah
– Charge voltage: 28,2V

Power supply to external devices:
– Voltage: (24±5)V
– Maximum current value (including current of monitored outputs and power loop): 5A

Dimensions: 493x464x110mm
Weight (batteries not included): 10kg