

## Functional characteristics

- > Control of the lines and controllable outputs for fault conditions (short circuit and interruption) and automatic reset;
- > Control of the lines for down fire detector and automatic reset;
- > Light and textual indication for Fire, Fault, Prohibition and Test mode;
- > Ability to delay controllable and general outputs for fire for a period of 10 to 600 seconds after the registration of state Fire;
- > Built-in sounder in case of fire - monotonal, continuous with the possibility of exclusion;
- > Test mode of each (fire alarm) lines;
- > Ability to Disable each of the fire alarm lines;
- > Ability to Disable controllable outputs for fire;
- > Interface for communication with external devices RS485 and networking / optional /;
- > Possibility for GPRS communication and remote control and monitoring / optional /;
- > LCD display, 2X16 characters and keyboard, for control and panel indication;
- > Energy independent archive of the events, recorded by the panel, consisting of type, date and time of the event - to 1200 events;
- > Fire counter - up to 9999 registered fire conditions;
- > Choice of language for text information display;
- > A set of test modes and options for adjustment of lines, outputs and panel.



## The panel meets standards:

- > EN 54-2:1997
- > EN 54-2:1997/A1:2006
- > EN 54-2:1997/AC:1999
- > EN 54-4:1997
- > EN 54-4:1997/A1:2002
- > EN 54-4:1997/A2:2006
- > EN 54-4:1997AC:1999
- > EN 50130-4:2011
- > EN 55022:2006/A1:2007
- > EN 60950-1:2006/A11:2009

## Lines

Number of lines	4 or 8	Optional
Maximum number of fire detectors in a line	32	
Type of the joining line	biconductional	
Plume maximum resistance	100 Ω	
<b>Current thresholds in the lines:</b>		
Interruption	from 1 to 12 mA	programmable
Duty mode	from 2 to 60 mA	programmable
Fire	from 12 to 70 mA	programmable
Fire direct /without delay outputs/	from 40 to 60 mA	programmable
Short circuit	> 70 mA	
<b>Lines functional characteristics:</b>		
Verification quantity before entering Fire mode:	1, 2 or 3	programmable
Verification and registering error if a fire alarm detector is removed:	yes	selectively programmable
Verification and registering fault in a earth conductor	yes	selectively programmable

## Outputs

<b>Independent relay output in case of fire alarm:</b>		
Quantity	1	
Type	switching	NC / NO
Electrical characteristics	3A/125V AC, 3A/30V DC	
<b>Controllable output in case of fire alarm:</b>		
Quantity	2	programmable
Type	potential relay	
Electrical characteristics	(19-28)VDC/ 0,5A	
<b>Relay output in case of fire alarm:</b>		
Quantity	2	programmable
Type	potential-free	
Electrical characteristics	3A/125V AC, 3A/30V DC	
<b>Additional relay outputs (modul M9000R 2/4/6/8) in case of fire alarm:</b>		
Quantity	2/4/6/8	programmable
Type	potential-free	
Electrical characteristics	3A/125V AC, 3A/30V DC	
<b>Independent relay output in case of failure:</b>		
Quantity	1	
Type	potential-free, switching	
Electrical characteristics	3A/125V AC, 3A/30V DC	

## Power supply

<b>Mains power</b>		
Voltage	(187-252)V AC	
Frequency	50/60 Hz	
Maximum power to mains power	65W / AC	
<b>Battery power</b>		
Battery quantity	2	
Type of the battery	Lead, gel	
Battery rated voltage	12V DC	
Reted power C20	5 Ah	
Charger voltage	27,6 VDC	temperature compensated
<b>Consumption of battery power in standby mode</b>		
Configuration with 4 lines	< 55 mA to 24 VDC	
Configuration with 8 lines	< 75 mA to 24 VDC	
<b>Time needed in security mode when mains power supply is down with battery 12V/ 5Ah</b>		
Configuration with 4 lines	90h	
Configuration with 8 lines	72h	

<b>Executive devices powering</b>	
Voltage	(19-28)V DC
Maximal current (including the controllable outputs current)	2 A
<b>Fuses</b>	
Mains power 230V AC	4,0 A fusible
Battery power	6,3 A fusible
Powering external devices	1,85 A automatic
Controllable outputs	1,1 A automatic
<b>Over all size</b>	
	<b>310x240x80 mm</b>
<b>Weight without batteries</b>	
	<b>1,3 kg</b>
<b>Safety degree</b>	
	<b>IP30/ EN 60529</b>

### Factory setting of the basic parameters Input lines

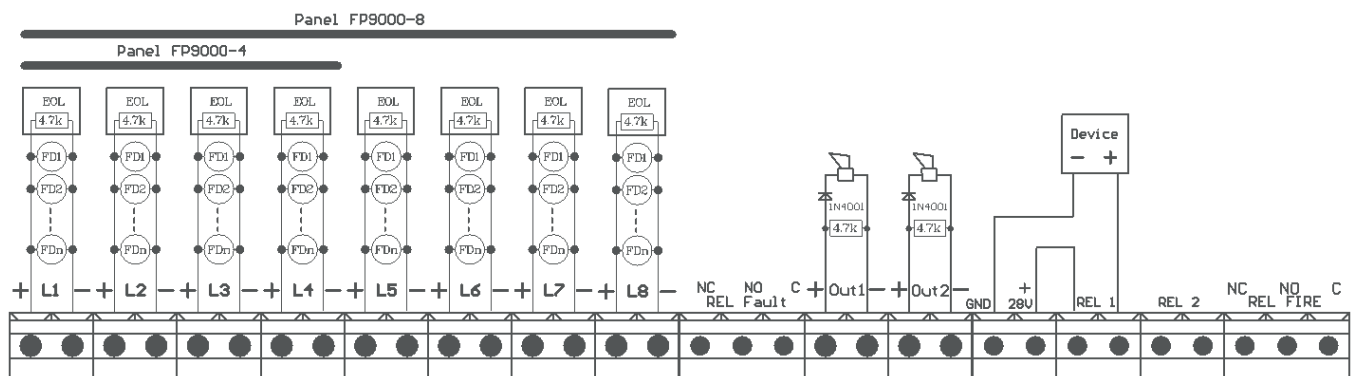
<b>Lines:</b>	
Quantity	4 or 8
<b>Current thresholds in the lines:</b>	
Interruption	from 4 mA
Duty mode	from 5 to 16 mA
Fire	from 17 to 60 mA
Fire direct /without delay outputs/	from 30 to 60 mA
Short circuit	> 70 mA

<b>Lines' functional characteristics:</b>		
Verification quantity before entering (in) fire state:	2	programmable
Verification and registering error if a fire alarm is removed:	Off	selectively programmable
Verification and registering fault in a earth conductor	On	selectively programmable

### Outputs

<b>Independent relay output in case of fire alarm:</b>		
Quantity	1	EN 54-2, independent
<b>Programmable controllable output in case of fire alarm:</b>		
Quantity	2	Not connected to zones
<b>Programmable relay output when fire alarm:</b>		
Quantity	2	Not connected to zones
<b>Independent realy output during failure:</b>		
Quantity	1	EN 54-2, independent
<b>Functional characteristics</b>		
Controllable and general outputs delay in case of fire. (The delay is valid only when outputs are connected to zones )	60 seconds	

### Terminals



### Delivery composition and complexity/set

Fire Station FD9000	1 qty.
EOL - resistor 4,7kΩ/0,25W:	
- for configuration with 4 lines /FD9004/	4 qty.
- for configuration with 8 lines /FP9008/	8 qty.
(EOL)End for controllable output - resistor 4,7kΩ/0,25W;	2 qty.

Fuse 6,3 A;	1 qty.
Fuse 4,0 A;	1 qty.
Connective bridge for batteries;	1 qty.
Packaging.	1 qty.