

## CONVENTIONAL FIRE ALARM PANEL

### FP9000-4, FP9000-8



### TECHNICAL CHARACTERISTICS

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

<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	NO
• 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	NO
• Electrical characteristics	3A/125V AC, 3A/30V DC	
<b>➤ Independent relay output in case of failure:</b>		
• Quantity	1	
• Type	potential-free, switching	NC / NO
• Electrical characteristics	3A/125V AC, 3A/30V DC	
<b>POWER SUPPLY</b>		
<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)	2A	
<b>Fuses</b>		
• Mains power 230V AC	4,0 A fusible	

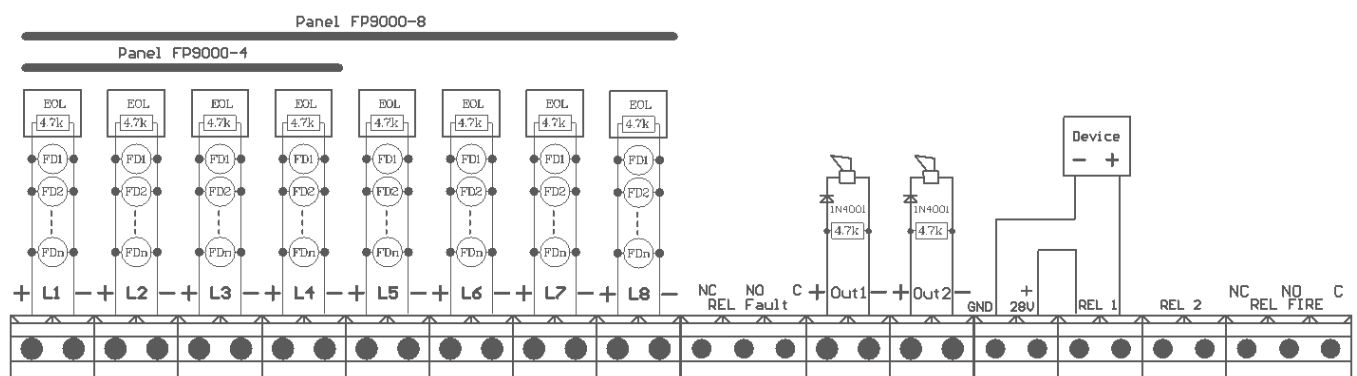
• Battery power	<b>6,3 A fusible</b>	
• Powering external devices	<b>1,85 A automatic</b>	
• Controllable outputs	<b>1,1 A automatic</b>	
<b>Functional characteristics</b>		
• Control of the lines and controllable outputs for fault conditions (short circuit and interruption) and automatic reset;		
• 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/LAN communication and remote control and monitoring / optional /;		
• LCD display, 2×16 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.		
➤ <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>	
<b>The panel meets standarts:</b>		
• 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		

#### **FACTORY SETTING OF THE BASIC PARAMETERS**

<b><u>INPUT LINES</u></b>		
➤ <b>Lines:</b>		
• Quantity	<b>4 or 8</b>	
➤ <b>Current thresholds in the lines:</b>		
• Interruption	<b>from 4 mA</b>	
• Duty mode	<b>from 5 to 16 mA</b>	
• Fire	<b>from 17 to 60 mA</b>	
• Fire direct /without delay outputs/	<b>from 30 to 60 mA</b>	
• Short cicuit	<b>&gt; 70 mA</b>	

➤ Lines' functional characteristics:		
• Verification quantity before entering (in) fire state:	2	programmable
• Verification and regestrating error if a fire alarm is removed:	Off	selectively programmable
• Verification and regestrating fault in a earth conductor	On	selectively programmable
OUTPUTS		
➤ Independent relay output in case of fire alarm:		
• Quantity	1	EN 54-2, independent
➤ Programmable controllable output in case of fire alarm:		
• Quantity	2	Not connected to zones
➤ Programmable relay output when fire alarm:		
• Quantity	2	Not connected to zones
➤ Independent realy output during failure:		
• Quantity	1	EN 54-2, independent
Functional characteristics		
• Controllable and general outputs delay in case of fire. (The delay is valid only when outputs are connected to zones )	60 seconds	

## TERMINALS



## DELIVEREY COMPOSITION AND COMPLEXITY/SET

• Fire Station FP 9000	1 qty.
• EOL - resistor 4,7kΩ/0,25W:	
- for configuration with 4 lines /FP9000-4/	4 qty.
- for configuration with 8 lines /FP9000-8/	8 qty.
• (EOL)End for controllable output - resistor 4,7kΩ/0,25W;	2 qty.
• Fuse 6,3A;	1 qty.
• Fuse 4,0A;	1 qty.
• Connective bridge for batteries;	1 qty.
• Packaging.	1 qty.