ISO 14001:2015   ISO 9001:2015 Certified Company
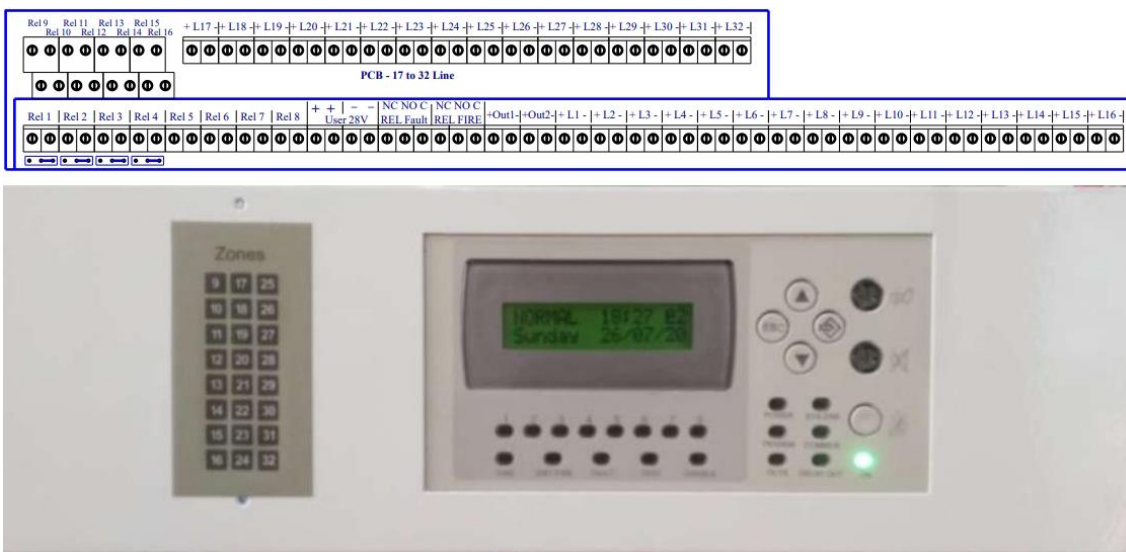
Made in EU

"DMTech" Ltd. Pleven

Product passport

Fire conventional panel FP 9000 – 16/24/32

Technical parameters

Product passport

Rev 01:20

1. TECHNICAL PARAMETERS

LINES		
➢ **Lines:**		
• Number of lines	**16, 24 or 32**	**programmable**
• Maximum number of fire detectors in a line	**32**	
• Type of the joining line	**biconductional**	
• Maximum resistance of the connecting wires	**100 Ω**	
➢ **Current thresholds in the lines:**		
• Interruption	**from 1 to 12 mA**	**programmable**
• Duty mode	**from 2 to 60 mA**	**programmable**
• Fire	**from 12 to 99 mA**	**programmable**
• Fire direct /without delay outputs/	**from 40 to 99 mA**	**programmable**
• Short circuit	**> 100 mA**	
➢ **Lines functional characteristics:**		
• Verification quantity before entering Fire mode:	**1, 2 or 3**	**programmable**
• Verification and regestrating fault in a earth conductor	**yes**	**selectively programmable**
OUTPUTS		
➢ **Independent relay output in case of fire alarm:**		
• Quantity	1	
• Type	switching	**NC / NO**
• Electrical characteristics	3A/125V AC, 3A/30V DC	
➢ **Controllable output in case of fire alarm:**		
• Quantity	2	**programmable**
• Type	potentional relay	
• Electrical characteristics	(19-28)VDC/ 0,5A	

➢ **Relay output in case of fire alarm:**		
• Quantity	8/12/16	**programmable**
• Type	potential-free	**NC / NO**
• Electrical characteristics	3A/125V AC, 3A/30V DC	
➢ **Independent relay output in case of failure:**		
• Quantity	1	
• Type	potential-free, switching	**NC / NO**
• Electrical characteristics	3A/125V AC, 3A/30V DC	
POWER SUPPLY		
➢ **Mains power**		
• Voltage	**(187-252)V AC**	
• Frequency	**50/60 Hz**	
• Maximum power to mains power	**65W / AC**	
➢ **Battery power**		
• Battery quantity	**2**	
• Type of the battery	**Lead, gel**	
• Battery rated voltage	**12V DC**	
• Reted power C20	**7, 9 or 18 Ah**	
• Charger voltage	**27,6 VDC**	**temperature compensated**
Consumption of battery power in standby mode		
• Configuration with 16 lines	**< 130 mA to 24 VDC**	
• Configuration with 24 lines	**< 180 mA to 24 VDC**	
• Configuration with 32 lines	**< 230 mA to 24 VDC**	
Time needed in security mode when mains power supply is down with battery 12V/ 18Ah		
• Configuration with 16 lines	**120h**	
• Configuration with 24 lines	**90h**	
• Configuration with 32 lines	**72h**	
Executive devices powering		
• Voltage	**(20-27)V DC**	
• Maximal current (including the controllable outputs current)	**1,8A/(4.5A optional)**	
Fuses		
• 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**	

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, Disable 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, 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 1600 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.

➢ **Over all size**	**400x420x80 mm**
➢ **Weight without batteries**	**4,3 kg**
➢ **Safety degree**	**IP30/ EN 60529**

The panel meets standarts:
• 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

2. CONFIGURATION

2.1. FP9000-16 basic configuration with 16 zones:

- Number of lines **16**
- Independent relay output in case of fire alarm **1**
- Controllable output in case of fire alarm **2**
- Relay output in case of fire alarm **8**
- Battery power **12V DC / 7, 9 or 18 Ah**
- LED indications for zones **32**

- In the basic configuration, hardware and software solutions are provided for adding modules forexpansion to 24 or 32 zones.

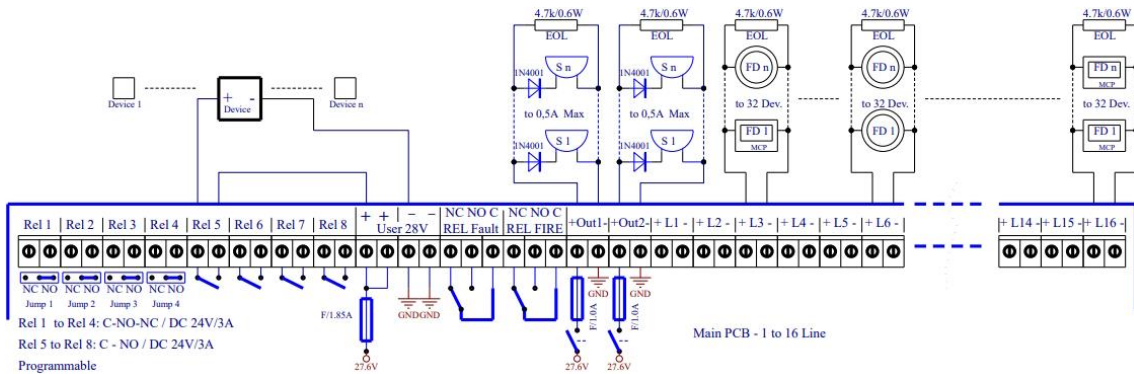Fig.1 The basic configuration FP9000-16 with 16 zones

2.2. FP9000-24 configuration with 24 zones

- Number of lines   **24**
- Independent relay output in case of fire alarm   **1**
- Controllable output in case of fire alarm   **2**
- Relay output in case of fire alarm   **12**
- Battery power   **12V DC / 7, 9 or 18 Ah**
- LED indications for zones   **32**
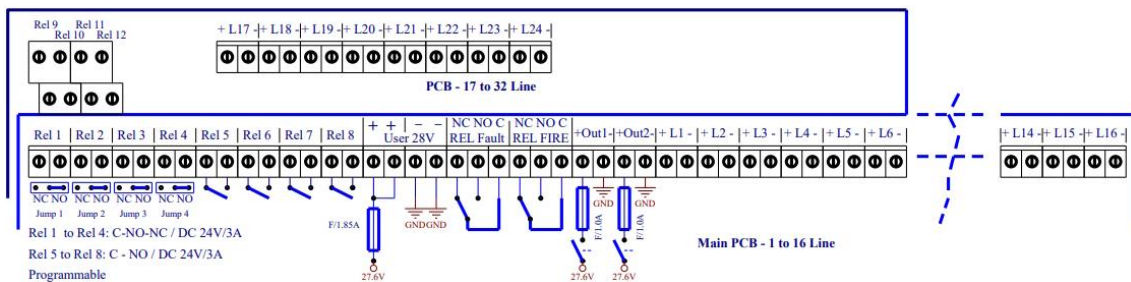- A microprocessor module with 8 zones and 4 relay outputs has been added to the basicconfiguration.

Fig.2 The configuration FP9000-24 with 24 zones

2.3. **FP9000-32** configuration with 32 zones

- Number of lines   **32**
- Independent relay output in case of fire alarm   **1**
- Controllable output in case of fire alarm   **2**
- Relay output in case of fire alarm   **16**
- Battery power   **12V DC / 7, 9 or 18 Ah**
- LED indications for zones   **32**
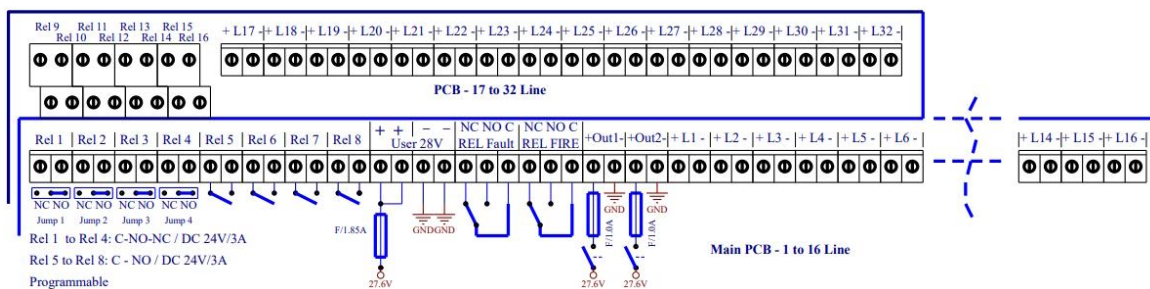- A microprocessor module with 16 zones and 8 relay outputs has been added to the basicconfiguration.

Fig.3 The configuration FP9000-32 with 32 zones

3.**WARRANTY**

The manufacturer guarantees the product's conformity with EN 54-2:, EN54-4:. The warrantyperiod is 36 months from the date of sale, provided that:
- the conditions of storage and transport were met;
- the startup has been done by authorized persons;
- The requirements for operation conditioned in this instruction were met;
- Defects are not caused by natural phenomena and accidents of the plug socket.

1922 – CPR - 1801

DMTech wishes you pleasant work!