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ISO 14001:2015 ISO 9001:2015 Certified Company

Made in EU

"DMTech" Ltd. Pleven

Extinguishing Control Panel

FP9000E

SPECIFICATIONS

1. INTRODUCTION

FP9000E is a conventional fire extinguishing control panel. The panel is designed for using together with systems for gas, powder, aerosol, water and other types of active extinguishing.

FP9000E has 3 zones - 2 extinguishing with activation of automatic fire detectors and 1 conventional fire zone. Automatic and manual operation modes (selectable via 3 positional key lock) allow the operators to choose the extinguishing process control.

The FP9000E conventional panel is designed for extinguishing in one zone and can operate with solenoids, pressostats and other kind of actuators.

Each fire line can be connected to 32 detectors. Through the display and keyboard can be programmed and adjusted over 50 functional parameters. Each line has 5 individual programmable parameters and that makes the panel universal for any type of conventional Fire detectors. All the panel conditions information is displayed on LCD 2x16 display and LED indicators. Volatile memory and real time clock enable recording and review of 1600 archive events.

Quick and easy - installation, setup and starting. Simple and clear procedures for operation and maintenance of the system.

2. TECHNICAL PARAMETERS

Fire LINES		
➢ **Lines:**		
• Extinguishing–2 fixed lines (Line 1 and Line 2)	**2**	
• Fire Alarm – 1 fixed line (Line 3)	**1**	
• Maximum number of fire detectors in a line	**32**	
• Type of the joining line	**biconductional**	
• Plume maximum resistance	**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**
• 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**
Supervised balanced inputs		
➢ **Manual Release:**		
• The "Manual Release" input is normally open.	**1**	
➢ **Hold:**		
• The "Hold" input can be configured: # input is normally open; # input is normally closed.	**1**	**selectively programmable**
➢ **Low Press.:**		
• The "Low Press." input can be configured: # input is normally open; # input is normally closed.	**1**	**selectively programmable**
➢ **Mode Select:**		
• The "Mode Select" input is normally open.	**1**	
➢ **On/Off Exting (Enable/Disable Extinguishing):**		
• The "On/Off Exting" input is normally open.	**1**	
Potential outputs		
➢ **S 1 (Sounder 1) – Monitored:**		
• Type	potentional relay	
• Electrical characteristics	24 V DC/ 0,5A	
➢ **S 2 (Sounder 2) – Monitored:**		
• Type	potentional relay	
• Electrical characteristics	24 V DC/ 0,5A	
➢ **EXT (Extinguishing, EN 12094-1) – Monitored:**		
• Type	potentional relay	
• Electrical characteristics	24 V DC/1.5A 15min, 24 V DC/3A 100ms	
• Adjustable time triggering the output of 5 to 900 seconds.		**programmable**
Relay outputs:		
➢ **1 Stage Relay (FIRE STAGE 1) – Non-monitored:**		
• Type	potentional-free	**NO**
• Electrical characteristics	3A/125V AC, 3A/30V DC	
➢ **2 Stage Relay (FIRE STAGE 2) – Non-monitored:**		
• Type	potentional-free	**NO**
• Electrical characteristics	3A/125V AC, 3A/30V DC	

Non-monitored outputs, OC (Open Collector) type:		
➢ **OK1 (Disabled mode selected Low Pressure event)):**		
• Electrical characteristics	30mA	
➢ **OK2 (Manual mode selected):**		
• Electrical characteristics	30mA	
➢ **OK3 (Low Pressure event):**		
• Electrical characteristics	30mA	
➢ **OK4 (Hold Activation event):**		
• Electrical characteristics	30mA	
➢ **Independent relay output in case of failure:**		
• Quantity	1	
• Type	potentional-free, switching	**NC / NO**
• Electrical characteristics	3A/125V AC, 3A/30V DC	
➢ **Independent relay output in case of fire alarm:**		
• Quantity	1	
• Type	switching	**NC / NO**
• Electrical characteristics	3A/125V AC, 3A/30V DC	
POWER SUPPLY		
➢ **Mains power**		
• Voltage	**(110-252)V AC**	
• Frequency	**50/60 Hz**	
• Maximum power to mains power	**55W / AC**	
• Consumption from the main power supply in standby mode:	**15 mA / 230V AC**	
➢ **Battery power**		
• Battery quantity	**2**	
• Type of the battery	**Lead, gel**	
• Battery rated voltage	**12V DC**	
• Rated power C20	**5 (4.5)Ah**	
• Internal resistance of the accumulator battery	**Ri: < 0.3Ω**	
• Charger voltage	**27,4 V DC**	**temperature compensated**
Consumption of battery power		
• standby mode	**< 35 mA to 24 VDC**	
Time needed in security mode when mains power supply is down with battery:		
• 12V/ 5Ah	**90h**	
Executive devices powering		
• Voltage	**(19-27)V DC**	
• Maximal current (including the controllable outputs current)	**2A**	
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, supervised balanced inputs 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, Activated, Extinguish, Fault, Disable and Test mode;	
• Ability to delay controllable and general outputs for extinguishing for a period of 1 to 60 seconds after the registration of state Activated;	
• 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 output S 1 (Sounder 1);	
• 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;	
• Choice of language for text information display;	
• A set of test modes and options for adjustment of lines, outputs and panel.	
➢ **Over all size**	**310x240x90 mm**
➢ **Weight without batteries**	**1,3 kg**
➢ **Safety degree**	**IP30/ EN 60529**
➢ **Operation temperature:**	**- 5ºC up to +40ºC**
➢ **Relative humidity**	**up to 95%**
➢ **Storage temperature**	**- 10ºC up to +60ºC**

The panel meets standards:
• EN12094:2003
• 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

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22

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