

FIGHTER MPR

Advanced Conventional Fire Alarm & Extinguishing Panel

- **Modular BUS Expansion:** System capacity can be expanded from 8 to 72 conventional zones and 8 to 72 relay outputs using 4-wire BUS expansion modules for maximum flexibility.



Overview

The FIGHTER MPR is an advanced, menu-driven conventional fire alarm and extinguishing control panel. It utilizes 4-wire BUS (RS-485) technology for modular expansion, allowing for flexible, scalable, and cost-optimized installations. The system is designed to provide reliable fire detection, comprehensive system monitoring, and certified extinguishing control, making it a complete solution for life safety and asset protection.

Features

- **Extinguishing Control:** Fully certified to EN 12094-1, the panel can be configured to manage up to 18 independent extinguishing areas using cross-zoning logic.
- **Advanced User Interface:** Features a 4x20 alphanumeric LCD keypad for intuitive menu-driven operation, programming, and system monitoring. The system supports up to 8 additional repeater keypads.
- **Intelligent False Alarm Reduction:** Incorporates "Intellizone" alarm verification and a Day/Night operation mode to significantly reduce the risk of false alarms in sensitive areas.

- **Comprehensive System Outputs:** Includes two monitored 24 VDC / 1A siren outputs (one with programmable patterns), a general-purpose dry-contact fault relay, and mirrored relay outputs for each zone on expansion modules.
- **System Diagnostics & Maintenance:** Features an easy-to-use Walk Test mode, the ability to independently bypass (disable) zones and relays, and a 1,000-event log for historical analysis.
- **Simplified Installation:** Offers automatic detection of new modules and an easy identification feature that uses a blinking LED pattern to locate specific modules from the keypad.
- **Remote Connectivity (Optional):** The system can be programmed via PC software using an RS-232 connection or fully managed remotely (monitored, operated, and programmed) with the optional TCP/IP module and SmartView software.
- **Certified Performance:** Conforms to European standards EN 54-2, EN 54-4, and EN 12094-1.

Technical Specifications

Feature Description	Specification
Power Supply	
Mains Supply Voltage	110-130 V AC or 220-240 V AC
Current per PSU	1.8 A @ 24 V DC
Auxiliary Output	24 V DC $\pm 10\%$, 800 mA max, current limited, monitored
Batteries	2 x 12 V, 7 Ah sealed lead acid gel
Current Consumption	
Main Board	Standby: 112 mA Alarm: 350 mA
Zones Expansion Module	Standby: 60 mA Alarm: 220 mA
Relays Expansion Module	Standby: 40 mA Alarm: 230 mA
Keypad	Standby: 25 mA Alarm: 110 mA
Inputs (Zones)	
Zone Voltage	16.3 V DC $\pm 10\%$
Max Detector Standby Current	15 mA per zone
Max Wiring Resistance	10 Ohm
Max Wiring Capacitance	5 μ F
Outputs	
Signaling Outputs (Sirens)	2 x 24 V DC $\pm 10\%$, 1 A max, fused and monitored
Fault Relay	Dry contacts (NO/NC), 30 V DC, 3 Amps

Feature Description	Specification
BUS System	
Type	4-wire RS-485 BUS
Max Length	1200 m using typical RS-485 cables
System Capacity	
Zones	8 on main board; expandable up to 72 total (with 8 expansion modules)
Relays	Expandable up to 72 total (with 9 expansion modules)
Keypads	Up to 8 expansion keypads
Power Supplies	Up to 16 supervised expansion PSUs
Physical	
Dimensions	Main Unit: 310 (L) x 450 (H) x 90 (W) mm Expansion Modules: 170 (L) x 320 (H) x 50 (W) mm Stand Alone LCD Keypad: 155 (L) x 110 (H) x 28 (W) mm
Environmental	
Operating Temperature	-5°C to 40°C (23°F to 104°F) - Class A
Humidity	5% to 95% RH, non-condensing
Terminal Blocks Rating	Rated for 12 to 18 AWG (0.75 to 2.5 sq mm) wire
Protection Rating	IP30

Ordering Information

Order Code	Part No.	Description
FIGHTER MPR	FIGHTER MPR	Conventional Fire Alarm & Extinguishing Panel

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