FP2864C-99

2000 Series - Addressable Fire Panel with 2 to 8 loops 16 - 64 zones - English UK

General

The FP2864C is a versatile addressable fire panel supplied with 2 class-A loops. In addition to a generous backlit LCD display, it provides LEDs for indicating both fire and fault conditions with text descriptions for 16 fire zones on the front panel user interface. The panel may be upgraded with an additional 6 class-A loops as well as 48 zone indicators, full inter-panel networking facilities on both copper or fibre, as well as with a LON network bus that supports the Aritech LON700 devices and repeaters, amongst others.

The FP2864C provides extensive maintenance features, boasts powerful I/O programming and supports both Aritech 2000 and 900 series protocols.

Installer and User friendly

The FP2864C offers multiple auto-configuration options with extensive auto detection facilities facilitating quick initial setup even for large systems. Multiple repeaters in various formats may be connected over a 2-wire network with both class-A and B operating modes, whilst up to 31 fire panels may be networked together for large applications.

In addition to the comprehensive information LEDs, the panel's large LCD display allows for every device in the system to be described with up to 80 characters of descriptive text, as well as 40 characters for zone descriptions. Complete statistics and graphics indications for every device are available.

Several mechanisms for preventing false alarms, including floating background with automatic compensation, double knock and coincidence mode within and between zones, as well as soak test facilities allow the user complete piece of mind.

Maintenance friendly

Maintenance warnings are available whenever detectors reach contamination levels. Together with real time diagnostics and statistics per sensor, the FP2864C offers a wealth of in-depth information locally or by remote connections.

LON700 Modules

Up to 32 LON700 nodes are supported on the optional LON700 network. This includes LCD and LED repeaters, synoptic chart drivers, supervised in- and output boards, relay and open collector output boards, zone monitors and power supplies.



Details

- Configuration, maintenance and graphic PC software support
- Up to 128 device addresses per loop
- Full interpanel network options
- Full range of repeaters and LON700 devices including Dutch and Scandinavian fire brigade panels, and Scandinavian alarm delay units
- Networkable "black box" panels
- Power supply for 72-hour autonomy
- Default start-up and service modes
- Programmable service reminders, on-line diagnostics and statistics
- Maintenance warnings and soak testing facilties
- One-man maintenance
- Floating background and drift compenstation
- Programmable day/night functionality
- Coincidence within and between zones
- Timed and manual zone control
- I/O programming with Boolean functions (maximum allocated input memory = 300)
- Scandinavian variants with Scandinavian firemans key available
- EN54 and CPD certified

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Technical specifications

General

Maximum system capacity (device count)	up to 30K
Network size (nodes)	more than 128

Electrical

Power consumption	200 VA
Operating voltage	230 VAC (+10%,a -15%), 47-63 Hz 21 to 28 VDC
Current consumption	200 mA @ 24 VDC (operation) <240 mA @ 24 VDC (alarm)

Loop

Maximum loop capacity	8
Cable rating	<2 km, Ø 1 mm, 300 nF/km, 100 ohm

Zone

Maximum zone capacity	up to 256

Standby battery

Charging	Battery charger: 27.3 VDC at 20°C, 36 mV/°C
Batteries supported in housing	2 x 12 V (7 to 45 Ah)

Physical

Form factor	Large
Physical dimensions	810 x 445 x 120 mm (H x W x D)
Net weight	15 kg (no batteries)
Colour	Traffic white (RAL9016)
Mounting type	Surface mount

Environmental

Operating temperature	-5 to +40°C
Storage temperature	-20 to +60°C
IP rating	IP54

Regulatory

Certification	EN54-2, EN54-4

Power supply

Auxiliary supply (24 VDC)	19 to 28 VDC @ 1 A (max)
Auxiliary supply (5 VDC)	5 VDC (±0.1V) 75 mA (max)

Loop specifications

Loops per panel	8 (Class A)/8 (Class B)
Loop current	<500 mA
Addresses per loop	<128 (protocol dependent)

Inputs / Outputs

Relays	4 (2A @ 24 VDC - 60 W)
Supervised Relays	4 (24 VDC, 30 ohm, 120 nF, 500 m)
Inputs (Opto Isolated)	4 (15 VAC/0 to 28 VDC)
Inputs (Supervision selectable)	4
Zone indicators per panel	64 (fire & fault)

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