

## FP 2000 Series

## Analogue Addressable Fire Panels

- One man maintenance
- Graphic maintenance
- Maintenance warning
- Service reminder signal
- Soak test
- On-line diagnostics and statistics
- Floating background
- Day/night sensitivity setting
- Coincidence within and in between zones
- Automatic timed and manual on/off zones
- Start-up default mode
- Service switch
- Upload/download, remote maintenance and graphic PC software
- I/O programming including Boolean functions
- ARCNET panel networking
- EN 54 approved; certified Bosc, VdS, NFA2P
- Networkable "black box" and "global zone" system
- Full range of repeater panels



### → Installer friendly

The panel is available in both a two to four loop version and a two to eight loop extendable configuration. The sensor's communication and supply is provided over 2 wires only. A service and commissioning switch allows the panel to start up in a default mode and fully auto-configure. Multiple panels and repeaters can be interconnected over a 2-wire ARCNET network allowing for interpanel I/O switching. The network may also consist of "Black box" fire panels centrally controlled by a "Global Zone" repeater (FB 2400/2800 and FRG 20xxx).

### → User friendly

In addition to a comprehensive zone and general information LED array, the panel features a generous 8 x 40 character graphic LCD display. This display provides every single address with up to 80 characters of site related alphanumeric information. Furthermore, it can visualise graphically the performance of any one sensor on a zone-per-zone basis. Information such as: Real Time Value, Test Value, Average Value, Highest Value, Lowest Value, Communication Quality and Contamination is clearly represented in the form of a bar chart. The above can also be plotted for any single sensor. The FB 2400/2800 "Black Box" panels have no front display.

### → Prevents false alarms

Several mechanisms to prevent false alarms are provided such as: floating background with automatic level compensation, day/night sensitivity setting for industrial sites and a coincidence mode within and in between zones. A soak test facility which follows-up "suspect" sensors further enhances false alarm immunity.

### → Maintenance friendly

Maintenance warning is generated whenever one or more detectors' contamination level is reached. The availability of real time, diagnostics and statistics per sensor offer a wealth of in-depth information, all visualised as described above locally or by remote dial-up. A service reminder signal can be generated at the time and date of the next planned maintenance. The physical checking of sensors can be performed simultaneously by up to 4 engineers without anyone attending the panel.

The maintenance friendliness is enhanced by the PCM 2000 remote maintenance software.

### → Excellence in software

The panel features a true programme friendly software for I/O's, including Boolean functions. Powerful inter-panel I/O driving is achieved by the industry standard peerless ARCNET network. The network is fully compatible with a mix of panels, global and standard repeaters, and universal nodes for PC connection. Both local and remote upload/download facilities are accommodated.

The panel provides multilingual menus and is fully compatible with the Apollo and Aritech range of detectors and accessories.

### → Repeater versatility

The FP 2000 series is available with a large range of repeaters - with connectivity to suit all applications. Cost effective LCD repeaters through to fully emulating LCD/LED repeaters can be used with the FP 2000 in panel or zone mode.

The 2000 series repeaters are connected with the NC 2011 (RS 485) or NC 2051 (optical fibre) network cards. The FRL 700 connects to the FP 2000 with the new FTT10 Echelon link.

## FP 2000 Series

### → Technical data

	<b>FP 2416/2432</b> <b>FB 2400 / FRG 20128</b>	<b>FP 2864</b> <b>FB 2800 / FRG 20255</b>	<b>LC 2002</b>
Supply voltage 1	190 - 270 V ac	190 - 270 V ac	-
40 - 60 Hz	40 - 60 Hz	-	-
160 VA max.	160 VA max.	-	-
Supply voltage 2	21 - 27 V dc	21 - 27 V dc	-
Current consumption			
Quiescent @ 24 V dc (Fully equipped loop)	500 mA	800 mA	+ 150 mA (252 detectors)
Alarm current @ 24 V dc	600 mA	1 A	-
Available auxiliary current in alarm	3,4 A	3 A	-
Battery charger rating @ 27.5 V dc	3 A	3 A	-
Total supply rating @ 27.5 V dc	4 A	4 A	-
Relay rating @ 24 V dc	2 A	2 A	-
Weight (no batteries)	11 kg	15 kg	-
Dimensions (mm H x W x D)	609 x 441 x 109	804 x 441 x 109	-

### → How to order

FP 2416	Analogue panel - 2-loop extendable up to 4 loops - 16 zones fixed	FR 2000	Repeater/emulator
FP 2432	Analogue panel - 2-loop extendable up to 4 loops - 16 zones extendable up to 32 zones	FR 2032	Repeater/emulator 32 zones/panels
FP 2864	Analogue panel - 2-loop extendable up to 8 loops - 16 zones extendable up to 64 zones	FR 2064	Repeater/emulator 64 zones
FB 2400	Analogue panel - 2-loop extendable up to 4 loops - no front display	FRG 20128	Global zone repeater, 64 zones expandable up to 128 zones
FB 2800	Analogue panel - 2-loop extendable up to 8 loops - no front display	FRG 20255	Global zone repeater, 64 zones expandable up to 255 zones
LC 2002	2-loop extension board	FM 808	Open collector driver - 8 outputs
ZE 2016	16-zone LED extension fire/fault	FM 816	Open collector driver - 16 outputs
ZE 2064	64 zone LED extension fire/fault (for FRG 20xxx)	FM 832	Open collector driver - 32 outputs
NC 2011	Dual network card with single RS 485 port	FM 864	Open collector driver -64 outputs
NC 2051	Dual network card with single F/O port	FR 808	LED repeater - 8 zones
NE 2011	RS 485 extension port for NC 2011/2051	FR 824	LED repeater - 24 zones
NE 2051	Fibre optic extension port for NC 2011/2051	FR 832	LED repeater - 32 zones
LON 2000	FTT10 Echelon interface	BS 131/18	Battery 12 V, 18 Ah
PR 2000	Internal printer	BS 131	Battery 12 V, 15 Ah Vds approved
UN 2011	ARCNET universal node	PCG-S	Single panel graphic package
MOD 2000	Modem kit	PCG-N	Multi panel graphic package
FRL 700	LCD repeater	PCG-CS	Client server multi panel graphic package
FR 1200	LCD repeater	PCM 2000	Maintenance manager software package
		PCC 2000	Configuration software package

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