



FIRE & SECURITY



FIREBRAND

DATA SHEET

FI-A Addressable Panel

Single Loop Analogue Addressable Control Panel Expandable to Two Loops

TECHNICAL SPECIFICATIONS

Power Supply and Charger

Primary Supply:	85-264 v AC.
Input Operating Voltage:	4 Amp - Surge protected (slow blow) 20 mm HRC
Mains electrical fuse:	Fuse located on electrical mains connector TB, placed above the PSU inside the box.
WARNING: In case of a short circuit or interruption of the analogue detection loop, only a maximum of 20 detectors or call points (per loop) can be prevented, at any given time, of transmitting a fire alarm. In order to assure compliance with this clause, loop isolators have to be installed every 20 devices in the loop	
Maximum Continuous Primary Power Supply Rating:	2.1 Amps @ 28,5 v DC nominal, comprising: 1 Amp max. temperature compensated, short circuit protected, battery charger. 400mA used for internal electronic circuits and external ancillary circuits. Maximum of 100 mA for internal electronic circuits. 300 mA for auxiliary power supply outputs. Under alarm conditions a maximum of 800mA current available for conventional sounder circuits.
Power Budget Quiescent Condition:	a - 100 mA internal circuits b - 300 mA auxiliary supply outputs c - 275 mA for analogue loop power (550mA for 2 Loops) d - 1 Amp for battery charger.
Alarm Condition:	800 mA for conventional sounder circuits +a+b+c
DC Output Voltage:	Maximum 28,5 v DC
Max. Ripple Voltage:	1 V peak-to-peak @ Maximum output loading.
Battery Charger Output:	27,5 v DC nominal @ 20°C
Secondary Supply:	24v sealed lead acid batteries. Maximum capacity 2 x 7 AH Both fitted internally. Min. Voltage 21,0 v DC (Vb min) Max. Voltage 27,2 v DC Max. Current Output 1.7 Amp Battery Fuse 1.7 A - Resettable



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The FireBrand panel is a single loop Analogue addressable control panel which can be expanded to two loops. It provides a cost effective solution for small to medium sized installations. The panel can support up to 125 addressable devices on each loop which are compatible with various manufacturers protocols (Please ask for details).



Using FireBrand's advanced communications mechanism up to 32 individually addressed Loop sounders can be connected to each of the panels detection Loop. The panel also supports Shadow sounders and Firebrands new Vulcan 2 addressable Sounder-Beacon-Isolator along with a range of other Interface devices.

The panel is equipped with a backlit LCD display of 4 rows each with 40 characters to give clear textual indications of Fire / Fault occurrences to the end user.

There are also 16 Zone Fire LED indicators. Mini-repeaters can be connected via an

RS422/RS485, Fibre Optic or TCP/IP interface to facilitate remote display and control of the system. Automatic Device detection at start up reduces time spent at the commissioning stage. In Installation mode the panel detects and recognises addressed and connected devices with the system being fully operational in less than two minutes.

The default programming ensures that the system is ready to detect Fire/fault alerts from the moment that power is applied. Additional programming, to customise the system can be implemented using a laptop PC running the CQR-Loader software which is available free of charge on the CQR website.

Ordering Info:

FI/PN/A/1L	1 Loop FI/A Addressable Control Panel
FI/PN/A/2L	2 Loop FI/A Addressable Control Panel
FI/AC/A/LCD	FI/A Loop card to expand 1 Loop to 2 Loops
FI/AC/A/NETCD	Rs422/485 Network & Repeater communication card
CQR-LOADER	Programming Software freely downloadable from the CQR-FireBrand Website



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Control Panel Expandable to Two Loops

KEY FEATURES

Key Features

- Single loop panel - Expandable to two Loops using FI/AC/A/LCD
- Supports connection to Mini-repeaters via RS422/485, Fibre-Optic or TCP/IP interfaces
- 125 device addresses per loop
- 96 Addressable ultra low current base sounders (32 address limit) per Loop
- 32 individually programmable sounder addresses per Loop
- Full SAM (Self Addressable Module) & MAM (Manually Addressable Module) support (FireBrand Protocol version)
- 2 Fire output relays (change-over) and 1 Fault relay (Normally closed)
- 2 conventional alarm outputs (Individually programmable)
- Detector loops monitored for integrity
- 384 fully programmable zones
- 512 fully programmable sounder groups
- 512 fully programmable Input and Output groups
- Event log (rolling, 2000 entries)
- Supports various Protocols (Please ask for details)
- Compatible with all our own low cost ancillary modules
- Backlit LCD display with 4 rows of 40 characters
- Programming by Loader Software.
- Multiple language support (menu selectable)
- Integrated 16 zone LED fire zone indication



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TECHNICAL SPECIFICATIONS

Please note that these specifications apply to the FI-A Analogue Addressable panel, 1 loop model, equipped with a 1.7 Amp power supply @ 28.5v DC nominal.

Weight:	Empty: 1.8Kg Including sealed lead acid batteries: 2 x 12 V 7 AH 7.0 Kg
Dimensions:	W 264 x L 392 x H 104 mm
Operating temperature:	0°C to + 40°C
Relative Humidity:	85% (non-condensing)
Conventional Sounder Circuits:	2 individually programmed. Both circuits current limited and monitored for both open and short circuit fault conditions. 10k Ohm E.O.L. resistors are used. Maximum current rating/sounder circuit 500mA.
Auxiliary Relay Outputs:	2 voltage free changeover relay outputs used for fire indication. 1 voltage free relay output for fault indication. Remains energised (normally closed) under normal condition and de-energises when any fault condition appears on the system. Maximum current rating for each relay contact 1A @ 50 v AC/DC resistive.
Sensor / Loop Circuits:	1 or 2 loops Max. number of devices per loop: 125 Supports analogue addressable devices over a 2 wire combined power and digital data transmission loop. Maximum recommended loop length is 1 Km with 1.5 mm 2 wire cross section. Maximum cable capacitance 120 pF/m. Minimum cable cross-section: 0.5 mm ² Maximum cable cross-section: 2.5 mm ²



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