Premier Fire & Safety Systems Ltd.

103 Olympic Way,
Fair Oak
Eastleigh, Hants, SO50 8QS
Phone 07786 564888 or fax 023 8069 6550 or E-mail **phil@pdkm.demon.co.uk**

Premier Juno Junior Single / Two Loop Version 4
Analogue Addressable Fire Alarm Control Panel

Data Sheet

The Premier Fire Juno Junior V4 is a one or two loop Analogue addressable control panel that provides a cost effective solution for small to medium sized installations. The Premier Junior V4 can support up to 125 addressable devices per loop which is compatible with Apollo XP95 or Hochiki communications protocols.

Using Premier Fires advanced communications mechanism up to 32 individually addressed Loop sounders or sounder beacons can be connected to each of the Junior's detection Loops. The Premier Junior also supports 32 Shadow type loop powered sounders or sounder beacons per loop.

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. Additionally 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 Junior 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 via the onboard keypad or using a laptop PC running the Premier Loader software which is available free of charge

Premier Juno Junior Single Loop
Analogue Addressable Fire Alarm Control Panel

Key Features

- Single / Two loop panel
- Supports connection to Mini-repeaters via RS422/485, Fibre-Optic or TCP/IP interfaces
- 125 device addresses per loop
- 96 VULCAN (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 (Wiz Mart Protocol version)
- 2 Fire output relays (change-over) and 1 Fault relay (Normally closed)
- 2 conventional alarm outputs (Individually programmable)
- Detector loop monitored for integrity
- 384 fully programmable zones
- 512 fully programmable sounder groups
- 512 fully programmable Input and Output groups
- Event log (rolling, 2000 entries)
- Compatible with Apollo S90 /XP95™ Discovery™ Protocols
- Compatible with all our own low cost ancillary modules
- Backlit LCD display with 4 rows of 40 characters
- Programming by integrated keypad or Loader Software.
- Multiple language support (menu selectable)
- Integrated 16 zone LED fire zone indication
- Interactive Discovery™ functions in the Apollo version

Premier Juno Junior Single Loop
Analogue Addressable Fire Alarm Control Panel

Technical Specification

Please note that these specifications apply to the Junior Analogue Addressable panel, 1 loop model, equipped with a 1.7 Amp power supply@28.5VDCnominal.

Weight:	Empty: 1.6 Kg Including sealed lead acid batteries: 2 x 12 V 7 AH 7.0 Kg
Dimensions:	W 274 x L 404 x H 109 mm
Operating temperature:	0ºC to + 40ºC
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 energized (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 total current load is 440 mA. Maximum recommended loop length is 1 Km with 1.5 mm2 wire cross-section. Maximum cable capacitance 120 pF/m. Minimum cable cross-section: 0.5 mm2 Maximum cable cross-section: 2.5 mm2
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.

Technical Specification continued.

WARNING: In case of a short circuit or interruption of the analogue detection loop, only a maximum of 32 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 32 devices in the loop

Maximum Continuous Primary Power Supply Rating:	1.7 Amps @ 28,5 V DC nominal, comprising: 1 Amp max. Temperature compensated, short circuit protected, Battery charger. 400 mA 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 1 Amp 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 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 @ 20ºC
Secondary Supply:	24 V 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. Currency Output 1.6 Amps Battery Fuse 1.6 A - Resettable Electronic Fuse