
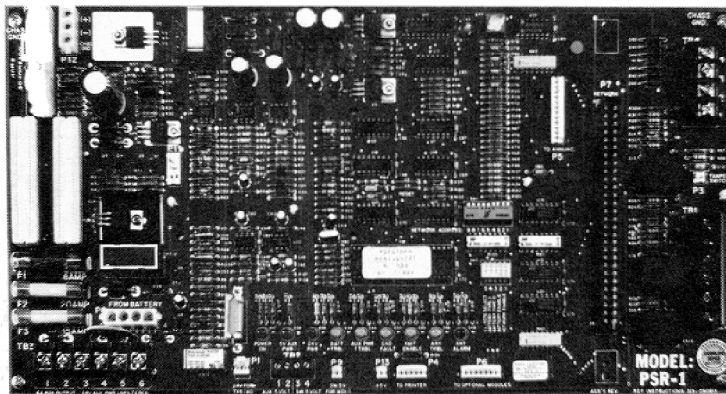


PSR-1

Remote Power Supply

ENGINEER AND ARCHITECT SPECIFICATIONS

- 24VDC Power Supply
- 5VDC Regulated
- 6 Amp or 12 Amp Output Power Options
- Microprocessor Controlled
- Status Indicator Lights
- Common Alarm Relay
- Common Trouble Relay
- Degrad Mode
- 19" Rack Mount Capability
- 2 Amp. 24VDC Class A Power Output
- Power Limited
- Auxiliary Power Output
-  Listed, ULC Listed
- CSFM, NYMEA, FM and City of Chicago Approved



Description

The PSR-1 is a microprocessor controlled remote power supply and battery charger for use with the Cerberus Pyrotronics MXL. It operates in conjunction with either an MPS-6 or MPS-12 to provide 6 or 12 Amps of power for use with various MXL modules. When used with a NET-4 or NET-7/7M plug in communication module, the PSR-1 becomes a part of the MXL's RS-485 network. It acts as an interface between remote option modules and the MXL.

The PSR-1 can be mounted in the MBR backbox and is an integral part of the MXLR or MXLRV remote units. It can also be mounted in a graphic annunciator panel and used to power an MOI/MOD annunciator driver set. The PSR-1 can also be used to power a remote MKB-2 module. When used with an MOI-7, a NET board is not required. Interface to the network is provided by the MOI-7.

The PSR-1 provides LED status indicators for: Power On, 5V Power On, 24VDC Aux. Power On, Battery Trouble, CZM-1 Power Trouble, Ground Fault, Transmit Enable, Common Trouble and Common Alarm.

The PSR-1 always requires an MPS-6 or MPS-12.

The PSR-1 provides a common alarm and a common trouble relay. When connected to a MOM-2 or MOM-4 cardcage containing option modules, data is transferred to and from the MXL through the PSR-1. If the MXL main processor fails or network communication is lost, the PSR-1 will continue to receive a common alarm or common

trouble signal from modules in the MOM-2's or MOM-4's to which it is connected. When an alarm is received during degrade operation, it can activate local notification appliance circuits.

Connectors are provided for interface to the MPS-6 or MPS-12, and MOI-7, TSP-40 and a MOM-2 or MOM-4 cardcage.

The on-board battery charger can charge up to 55 Amp hour batteries. Any PSR-1 can be interrogated by the MMB. Battery voltage, charge current, DC load and AC voltage can be viewed on the MKB display.

The PSR-1 provides two 24VDC outputs: a 2 Amp output is provided to power MXL remote intelligent modules such as CZM-1s and ICPs. This output can be wired in a Class A type configuration. When wired this way, a transfer relay will supply power to these devices even during a single open in the circuit. This output is power limited per NEC 760 and is supervised. The other 24VDC output is used to power MXL option modules.

The PSR-1 is UL, ULC listed and NYMEA, FM, CSFM approved. This equipment is approved for operation over the temperature range of 0°C to 49°C.

Engineer and Architect Specifications

The MXLR units shall be powered by a PSR-1 remote power supply/network communication module. The PSR-1 shall be used with an MPS-6 or an MPS-12. The MPS-6

and MPS-12 each consists of a transformer, bridge rectifier, line filter and resettable circuit breaker. The PSR-1 shall be capable of operating with a NET-4 or NET-7/7M network communication module. When used with a NET plug-in module, the PSR-1 shall become a part of the MXL RS-485 network. Any MXL option module which is connected to the PSR-1 will be capable of full bi-directional digital communication with the main MMB.

The PSR-1 shall provide 24VDC and 5VDC power to MXL option modules. Connectors shall be supplied to interface the PSR-1 with compatible MXL option modules.

The PSR-1 shall be capable of providing power to the MOI-7 output interface module and MOD-16 output driver module for use with LED or lamp type annunciators or MID-16 for Programmable Input Zones.

The PSR-1 shall provide one power limited Class A auxiliary power output rated at 24VDC, 2 Amp and one 24VDC non-power limited output. The Class A power output shall be capable of being wired in a Class A configuration, able to supply power to its connected devices even during a

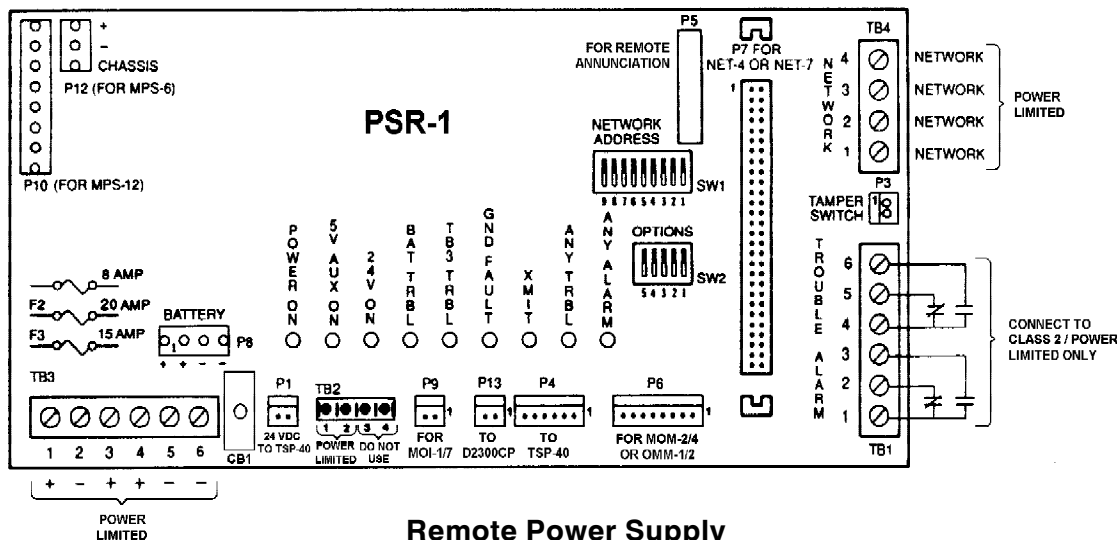
single open in the wiring. When wired in a Class A configuration, power circuit wiring shall be fully supervised and any fault shall be indicated at the PSR-1 as well as the MXL main unit. Power limiting shall be provided by a self restoring thermal device. Fuses shall not be used to supply power limiting.

A degrade alarm relay, degrade trouble relay, and on board status LED's shall be provided by the PSR-1. They shall be capable of operation in the event of MXL main processor failure or loss of network communication.

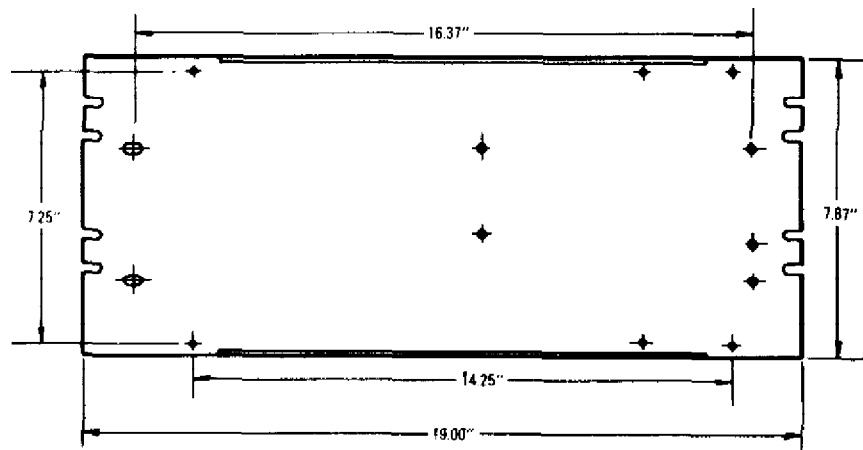
Status LED's shall indicate: Power On, 5VDC Aux. Power On, 24VDC Aux Power On, Battery Trouble, CZM-1 Power Trouble, Ground Fault, Transmit Enable, Common Trouble and Common Alarm.

The PSR-1 battery charger portion shall be microprocessor controlled and capable of charging sealed lead acid batteries sized up to 55 Amp hours. Battery voltage, charging current, DC load and AC mains voltage shall be capable of being queried and displayed at the MXL.

The PSR-1 shall be capable of being 19" rack mounted.



Remote Power Supply



Mounting Plate

NOTICE: The use of other than Cerberus Pyrotechnics detectors and bases with Cerberus Pyrotechnics control equipment will be considered a misapplication of Cerberus Pyrotechnics equipment and as such void all warranties either expressed or implied with regards to loss, damage, liabilities and/or service problems.



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