



Description

Mircom's BPS-800 is a notification appliance circuit extender panel designed to extend the power capabilities of existing notification appliance circuits and to provide power for other ancillary devices. It also includes an internal battery charger. The BPS-800 may be connected to any UL Listed Fire Alarm Control Panel to provide Notification Appliance Circuit expansion.

Designed with advanced switchmode power supply technology, the BPS-800 provides filtered and electronically regulated power distributed to four Notification Appliance Circuits (NAC). Each NAC is rated at 3 Amp maximum with a total output capacity of 8 Amp. The outputs may be configured as four Class "B" (Style "W", "X", "Y") or two Class "A" (Style "Z") or two Class "B" and one Class "A" or 4 Class "A" (Style "Z") with the optional Class "A" adaptor installed.

Mircom's BPS-800 provides independent output circuit supervision. In the event of a NAC fault, the BPS-800 can be configured to notify the fire alarm control panel. The BPS-800 has field selectable built-in strobe and horn sync protocols to support Mircom, Amseco, System Sensor, Wheelock, Gentex, Gamewell and Faraday devices, or pass through a predetermined sync protocol from the host fire alarm control panel eliminating the need for additional external sync modules.

Features

- Provides two fully supervised input/control circuits
- Redundant activation option for survivability
- Multiple Sync Protocols compatible with the following appliances: Mircom, Amseco, System Sensor, Wheelock, Gentex, Gamewell and Faraday
- Four (4) configurable supervised NAC outputs
- 8 Amp 24 VDC, fully regulated full load output (Power limited)
- Output fault notification to FACP
- 1.5 Amp auxiliary power output
- Eight (8) trouble and status LEDs
- Common Trouble Form-C relay
- Isolated AC fail Form-C relay immediate or delayed 6 hours
- Ground fault detection
- 26 Amp battery charger capability
- Facilitates multi Notification Appliance Circuit synchronization for large areas
- Optional Class A adaptor

Independent horn silencing via sync protocol allows synchronized horns and strobes to operate on a single circuit.

In retrofit applications that have End-Of-Line (EOL) values different from the 3.9K ohm EOL resistor normally used with the BPS-800, a single resistor matching the existing EOL can be used as a reference EOL for all outputs. The reference resistor can be within a range of 2K ohm to 25K ohm, resistors outside this range will cause a trouble indication.

For enhanced notification appliance circuit survivability, the BPS-800 can utilize its dual activation inputs for redundant trip operation.



Engineer Specifications

The Fire Alarm System shall be designed with remotely located Notification Appliance Circuit expander/power supplies for the support of notification appliances. The remote power supplies shall be fully supervised and shall provide 8 Amp of notification appliance power and 1.5 Amp of auxiliary power output.

The notification appliance circuit extender panel shall be able to select strobe synchronization protocol via an internal dip switch. There shall be four (7) selectable protocols available.

Specifications

Primary Input Power: 120 VAC, 60 Hz, 3.0 Amp or 220V
1.5 Amp Jumper selectable
Secondary Power: 24-volt: (2) 7-24 AH batteries
Battery Charging Capacity: Up to 26 AH batteries
Total Output Power: 8 Amp maximum
Standby current: .030 Amp
Auxiliary Power Output: 0.15A under all conditions
1.5 Amp, if load is removed during operation (external relay or AC fail relay use required)
NAC Output Ratings: 24 VDC Fully Regulated
3 Amp max./ckt. (8 Amp total)
EOLR Range: 2k-25k ½W

The notification appliance circuit extender panel shall be able to use existing notification appliance circuits' end of line resistors in the range of 2K - 25K ohms for retrofit applications. The NAC Expander/Power Supply shall be a Mircom BPS-800.

Cabinet Dimensions: 18"H x 12½" W x 4½"D
Battery Space: Up to two 12 AH batteries max internal (larger batteries would require a separate battery cabinet)
Relative Humidity: 10-93% non-condensing
Temperature Rating: 0°C - 49°C (32°F - 120°F)
Common Trouble Relay: 2A/28 VDC or 120 VAC
AC Fail Relay: 2A/28 VDC or 120 VAC
Input Control Circuit: 16-30 VDC @ 5mA min.

Ordering Information

Model	Description
BPS-800	24 VDC, 8 Amp Remote Booster Power Supply with integral battery charger
BPS-CLA	Class "A" Adapter Module
BPS-MP	Addressable Module Mounting Plate
BA-1065	Battery, 12 VDC, 6.5 Amp Hour (2 required for 24 volt operation)
BA-110	Battery, 12 VDC, 10 Amp Hour (2 required for 24 volt operation)

NOT TO BE USED FOR INSTALLATION PURPOSES.



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