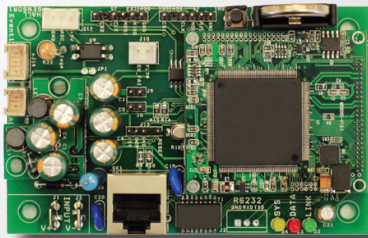




*Patent Pending



FEATURES / BENEFITS

- Enables network connectivity for remote diagnostics, battery health management, and trouble / service email alerts for FPO DC systems
 - ◆ 24/7 network power management
 - ◆ Perform battery load testing and reporting, using the system as a load
 - ◆ Remote supervision of the battery including battery state testing
 - ◆ Provides two outputs for remote control of external equipment
 - ◆ Monitors and records cabinet temperature
 - ◆ Program AC and System fault delays: hours, minutes, seconds
- PowerCom interface provides power status monitoring of
 - ◆ System integrity / Battery condition / Cabinet temperature
- Network & Email alerts for
 - ◆ AC / System fault conditions
 - ◆ Aging battery and draining battery
 - ◆ Fire Alarm Interface (FAI) activation
 - ◆ External Event activation
- An SNMP interface allows network access of real time system parameters under SNMP v1, v2, or v3
- **DataLink** Smart network power management
- **PowerCom** Power supply monitoring / programming software
- **PwrHealth** Comprehensive battery state reporting
- **Fault** 100 event time and date stamped event log
- **SmartZone** Remote output control

NETLINK CAPABILITIES

Monitored Parameters

- Power Supply Output Voltage
- AC Fault Status
- System Fault Status
- Fire Alarm Input Status
- Battery Voltage
- Battery Charge Current
- Battery Age
- Total Number of System Faults
- Total Number of AC Faults
- DC Load Current (system or battery)
- DC Output Voltage (system and battery)
- Event 1 (user specified)

Programmable Functions

- AC Fault Delay
- System Fault Delay
- System Install Date
- Reset Fault Counters
- Optimal Battery Charge Current
- Reset Battery Age Counter
- Battery Replacement Period

Control Functions

- Output 1 (on or off)
- Output 2 (on or off)

Event-triggered Email Alerts & Reports

- AC Fault Occurrence
- System Fault Occurrence
- FAI Activation Occurrence
- Low Battery Occurrence
- Battery Load Test Completed
- General System Status Report
- Scheduled System Service Due Alert
- Battery Replacement Due Alert
- Event Activation Alert (user specified)

Test Functions

- Battery run time capacity
- Battery state of charge

DESCRIPTION

The NL1 NetLink module is a networking appliance used with the FlexPower product line. The NL1 is used to monitor power supply system status over a local or wide area network. When used with a FlexPower FPO DC system, the NL1 will allow limited control of the power system and provide values on demand for power supply output voltage, operational fault status, battery charging voltage, battery charging current, and fire alarm input status.

Automated reports may be generated on any detected fault condition, battery aging, fire alarm interface activation, and event activation, or on a time base for scheduled confirmation of proper operation. A time and date stamped log of the past 100 events is kept as history in a buffer and may be accessed as a scheduled report, or immediately on an alert or occurrence. The buffer is updated once per hour with all parameters in normal range.

In addition to providing two data ports for connection to FlexPower FPO power supplies, the NL1 provides three additional inputs for standalone or FlexPower use to monitor an additional DC voltage value, an Event input (voltage), and a DC current via an optional current sensor device. The surrounding air temperature is also measured and reported. The Event input logic can be programmed to respond to the application or removal of voltage to compensate for NO or NC activity.

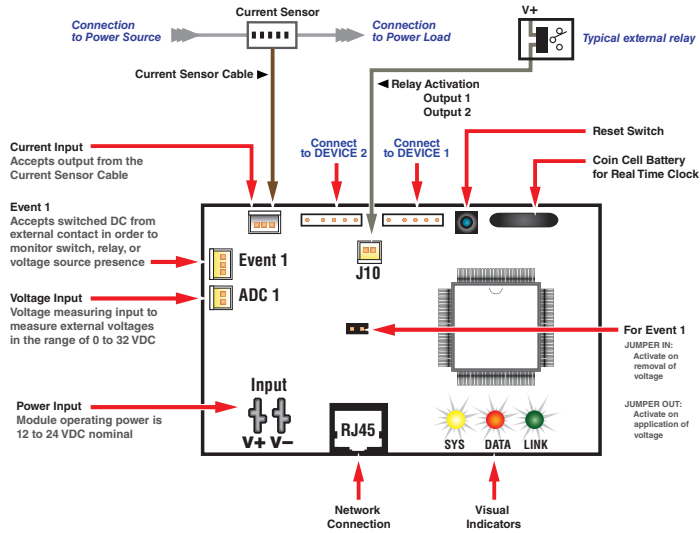
The NL1 provides two outputs for use in controlling external equipment which may be connected to LifeSafety Power's RB2, RB5, or RB8 DPDT relay modules or to the NS2 accessory module for use in controlling external equipment from the network or internet. The NS2 output controller module is typically used in an FPA or RA FlexPower AC System.

Agency Listings: UL2044, UL294, UL60950-1

ELECTRICAL RATINGS

Parameter	Value	Unit
Input Operating Voltage	9 to 30	VDC
Input Operating Current	60	mA nominal
Network Data Rate	10/100	Mbps
Voltage Measurement Range	0 to 30VDC ±5%	
Current Measurement Range	0 to 20A ±0.1A +5% of reading	
Event Input	9 to 32	VDC
Output 1, 2 Max Sink Current	50	mA nominal

NETLINK MODULE DIAGRAM



NETLINK WEB BROWSER SCREEN

POWERCOM MANAGER

- Monitors up to two FPO DC power supplies
- Home Screen Command Center
 - ◆ Accessible via web browser locally or remotely
 - ◆ Visual alert of system status
 - ◆ Fault and system history
 - ◆ FAI status
 - ◆ Remote reset On/Off control
 - ◆ Battery charge condition
 - ◆ Battery service notification
 - ◆ Battery run time test activation
- Report Screen
 - ◆ Set up screen
 - ◆ What to report, when to report
- Configure Screen
 - ◆ Network, email, SNMP settings
 - ◆ Current sensor calibration
 - ◆ Battery life/capacity setting
- Programming Screen
 - ◆ Set FPO battery charge current
 - ◆ Set fault report delays
 - ◆ Reset timer for new battery instal
 - ◆ Reset fault counters
- Tools Screen
 - ◆ Upgrade software
 - ◆ System reboot
 - ◆ System activity log

Note

AC networked systems have a simpler PowerCom screen outlined in red

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Important: All information, including illustrations, is believed to be reliable. Users, however, should independently evaluate the suitability of each product for their particular application. LifeSafety Power makes no warranties as to the accuracy or completeness of the information, and disclaims any liability regarding its use. LifeSafety Power's only obligations are those in the LifeSafety Power Standard Terms and Conditions of Sale for this product, and in no case will LifeSafety Power or its distributors be liable for any incidental, indirect, or consequential damages arising from the sale, resale, use, or misuse of the product. Specifications are subject to change without notice. In addition, LifeSafety Power reserves the right to make changes—without notification to Buyer—to processing or materials that do not affect compliance with any applicable specification.