



Features and Functions

Monitoring and reporting FLEXPOWER® systems for

- ◆ System integrity / battery health / output condition
- ◆ 1000 Event Buffer

Remote diagnostics and service features

- ◆ Monitor health and status of host power supply, battery set, and up to *twenty four individual outputs** (*requires M8 module)
- ◆ Auto-schedule, test, and report battery standby time
- ◆ Remote supervision of battery's state of charge
- ◆ Monitoring internal cabinet temperature
- ◆ Monitoring external room temperature with over temp alert
- ◆ Remote power cycling control of external equipment
- ◆ Time/Date stamp log reports last 1000 events

Email notification on

- ◆ AC and system fault conditions
- ◆ Aging or drained battery
- ◆ Fire Alarm Interface (FAI) activation
- ◆ External room temperature outside preset limit
- ◆ External Event activation
- ◆ Output condition (requires M8 module)
 - Over voltage or over current | voltage loss | output power cycled

SNMP set and trap notification

- ◆ Version 1, 2, or 3

Ordering

NL4 4 port network module Size: 4" x 2.5" x 1.5" Weight: .25 lb.

Cables and mounting hardware provided

Mechanical Information

Description

The **LIFESAFETY POWER NETLINK™** module is part of **FLEXPOWER's** patented power management system for security and life safety applications.

NL4 is a four data port network module that communicates and controls power status over a local or wide area network. The NL4 provides four SPI ports for connection to FlexPower devices that enables monitoring and control of the power system. Typical data gathered and reported includes operational fault status, power supply output voltage, 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 1000 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 four SPI connections, the NL4 provides two current sensor inputs, a remote temperature sensor input, a volt meter input, and a contact monitor input. The current, voltage, and temperature sensors may be given upper and lower limits to trigger an alert if the measured value goes out of range. The contact monitor input may be programmed to respond to either a normally open or normally closed contact or voltage presence or loss. Two outputs are also provided for use in power cycling external equipment with RB relay modules or interfacing to the C4, C8, or M8 modules.

Electrical Ratings

Electrical Ratings	Specification
Input Operating Voltage	9 to 30 VDC
Input Operating Current	60 mA nominal
Network Data Rate	10/100 Mbps
Voltage Measurement Range	1 to 30 VDC ±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

Agency Listings UL2044, UL294, UL60950-1

Lifetime Warranty

Monitoring / Reporting / Test / and Control Functions

Monitored Parameters

Power Supply Output Voltage
AC Fault Status
System Fault Status
Fire Alarm Input Status
Battery Voltage and Charge Current
Battery Age
External Room Temperature
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
Temperature, Current, Voltage Trigger Parameters

Control Functions

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

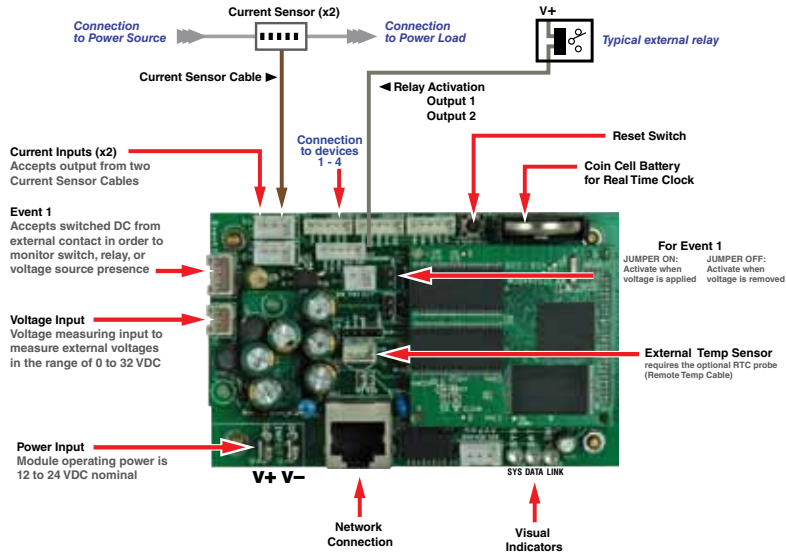
Event-triggered Email Alerts & Reports

AC or 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
External Temperature Sensor Alert
Event Activation Alert (user specified)

Test Functions

Battery run time capacity
Battery state of charge

Module Connections



The screenshot shows the NL4 Browser Home Screen with the following sections:

- Header:** LifeSafety Power, PowerCom® POWER SYSTEM MANAGER, Ver: 6.06.
- Navigation:** HOME, Reporting, Configure, Tools, admin, Log Out.
- Site Information:** SITE ID: iSCAN, Date: Fri Jul 26 2013, Time: 12:49:39.
- Network Module Dashboard (NL4 ver:0.9):**
 - Enclosure Temperature: 106.5 °F
 - External temperature: 73.3 °F
 - 24V Battery set Current: 0.05 Amp
 - B100 Current (amps): 0.93 Amp
 - B100 Output (12 Volts): 12.58 VDC
 - Event N/A: Active
 - Service Due: No
 - Controls: Increase MagLock 1 Current (off), Initiate fire Alarm (off)
 - Device On/Off Control: Control 1 (ON/OFF), Control 2 (ON/OFF), Temperature (°F/°C)
- NL4 Connected Devices:**
 - Device 1: Model: FPO253-200, Device ID: FP-1, Status: Green
 - Device 2: Model: M8, Device ID: M8-1, Status: Green
 - Device 3: (Empty)
 - Device 4: Model: M8, Device ID: M8-2, Status: Green

NL4 Browser Home Screen

Network Dashboard

- ◆ Internal / external temperature sensors
- ◆ Current sensor reading
- ◆ Voltage sensor reading
- ◆ Event activation condition
- ◆ Service due report
- ◆ System log report
- ◆ Device on/off control

NL4 connected devices

- ◆ Two power supplies and 16 managed outputs
- ◆ One power supply and 24 managed outputs
- ◆ Visual status of device condition

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

LifeSafetyPower.com

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See NL4 installation manual for comprehensive guide to features