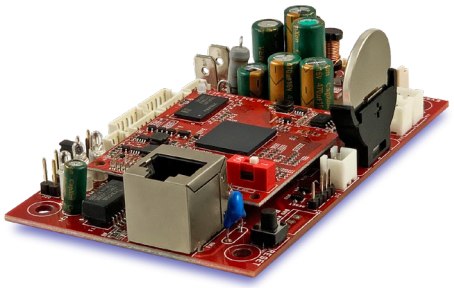
LifeSafety Power®

LIFESAFETY POWER NETLINK® NL4

Four Port Network Communication Interface for Remote Power Monitoring, Reporting and Control

U.S. Patents 8,566,651 / 9,098,390



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, battery not meeting standby specification
- 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

Hardened Cybersecurity

- Encrypted password, user and certificate logging

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

Cables and mounting hardware provided

Description

The **LIFESAFETY POWER NETLINK™** module is part of **FLEX**POWER'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.

RoHS compliant

Electrical Ratings	Specification
Input Operating Voltage	8 to 30 VDC
Input Operating Current	60 mA nominal
Network Data Rate	10/100 Mbps
Voltage Measurement Range	0 to 30 VDC ±3% (10-30V)
Current Measurement Range	0 to 20A ±0.1A +5% of reading
Event Input	8 to 30 VDC
Output 1, 2 Max Sink Current	50 mA

Agency Listings UL294, UL1076, UL603, ULC S318, S319, CSA C22.2 #205

Lifetime Warranty

Monitoring / Reporting / Test / and Control Functions

Monitored Parameters
Power Supply Output Voltage
AC Input Measurement and 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)*
Tamper switch (or other contact monitoring)

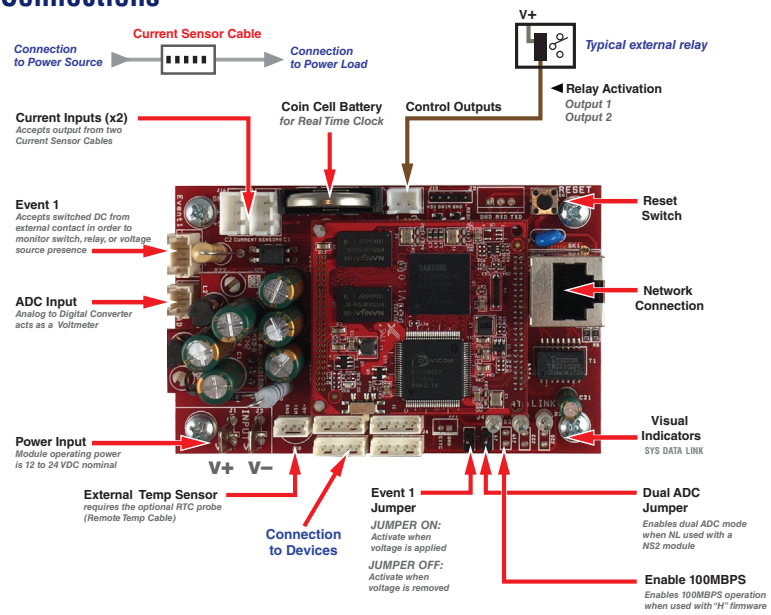
Programmable Functions
AC Fault Delay
System Fault Delay
System Install Date
Reset Fault Counters
Optimal Battery Charge Current
Reset Battery Age Counter
Battery Replacement Period
Temperature, Current, Voltage Trigger Parameters

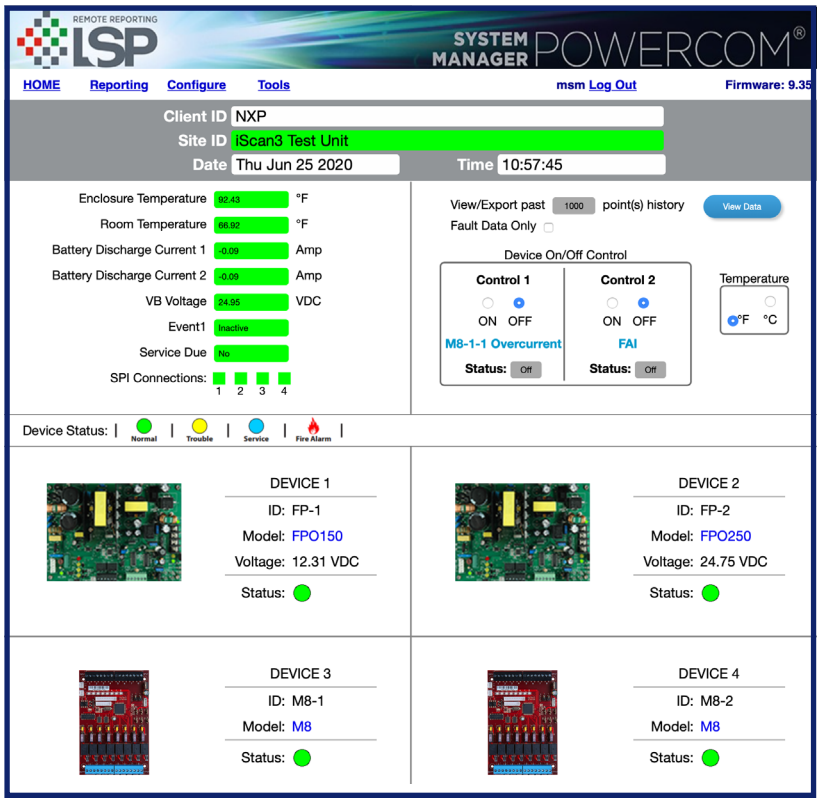
Control Functions
Output 1 *(on or off)*
Output 2 *(on or off)*

Event-triggered Email Alerts & Reports
AC or System Fault
FAI Activation
Low Battery Voltage
Low Measured Battery Standby Time
General System Status Report
Scheduled System Service Due
Battery Replacement Due
External Temperature Sensor
Tamper Switch Activation

Test Functions
Battery run time capacity
Battery state of charge

Module Connections





See Netlink installation manual for comprehensive guide to features

NetLink Browser Home Screen

Network Dashboard

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

NetLink 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
- User login and activity logs

Power Supply 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

LifeSafetyPower.com

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Specifications subject to change without notice.

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