Description

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

The NL2 is a two data port network board that communicates and controls power status over a local or wide area network. The NL2 provides two 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 two SPI connections, the NL2 provides a current sensor input, a voltmeter input, and a contact monitor input. 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 or C8 modules.

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**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 and battery set
- Auto-schedule or manual test and report battery standby time
- Remote supervision of battery’s state of charge
- Remote monitoring and alert of external temperature fluctuations
- Monitoring of internal cabinet temperature
- Remote power cycling control of external equipment
- Time / date stamp system log reports of 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

**Electrical Ratings**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Input Operating Voltage</td>
<td>9 to 30 VDC</td>
</tr>
<tr>
<td>Input Operating Current</td>
<td>60 mA nominal</td>
</tr>
<tr>
<td>Network Data Rate</td>
<td>10/100 Mbps</td>
</tr>
<tr>
<td>Voltage Measurement Range</td>
<td>1 to 30 VDC ±5%</td>
</tr>
<tr>
<td>Current Measurement Range</td>
<td>0 to 20A ±0.1A +5% of reading</td>
</tr>
<tr>
<td>Event Input</td>
<td>9 to 32 VDC</td>
</tr>
<tr>
<td>Output 1, 2 Max Sink Current</td>
<td>50 mA nominal</td>
</tr>
</tbody>
</table>

**Agency Listings**
UL2044, UL294, UL60950-1

**Lifetime Warranty**

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**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
- Total Number of System Faults
- Total Number of AC Faults
- DC Load Current (system or battery)
- DC Output Voltage (system or 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

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**Ordering**

<table>
<thead>
<tr>
<th>NL2 Two Port Network</th>
<th>Size: 4&quot; x 2.5&quot; x 1.5&quot;</th>
<th>Weight: .25 lb.</th>
</tr>
</thead>
</table>

Cables and mounting hardware provided
**NL2 Communication Module**

**Module Connections**

- **Connection to Power Source**
- **Connection to Power Load**
- **Current Inputs (x2)**
  - Accepts output from two Current Sensor Cables
- **Event 1**
  - Accepts switched DC from external contact in order to monitor switch, relay or voltage source presence
- **ADC Input**
  - Drives its digital output acts as a Voltmeter
- **Power Input**
  - Module operating power is 12 to 24 VDC nominal
- **External Temp Sensor**
  - Requires the optional RTC probe (Remote Temp Cable)
- **Connection to Devices**
- **Coin Cell Battery**
  - For Real Time Clock
- **Control Outputs**
- **Relay Activation**
  - Output 1
  - Output 2
- **Network Connection**
- **Visual Indicators**
  - SYS BUS LINK
- **Dual ADC Jumper**
  - Enables dual ADC mode when NL used with a NS2 module

**NetLink 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
- **NetLink connected devices**
  - Two power supplies
  - 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

See NetLink installation manual for comprehensive guide to features

**LifeSafetyPower.com**

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