LifeSafety Power®

The Final Piece in a Fully Managed Access System

By combining the SD4 or SD16 with the M8 and NetLink, the system can now monitor the access control panels, readers, REX devices and other auxiliary devices, in addition to the power supply, battery set, and locks.

POWER SUPPLIES	BATTERIES	LOCKS	PANELS	READERS / REXs

FPO/NL   **M8**   **SD4/SD16**

Product Overview

The SD4 and SD16 smart distribution modules are the final piece for a fully remote managed system. The SD4 and SD16 provide remote monitoring and control to previously unmonitored auxiliary devices such as access control panels, readers, and REX devices.

When combined with a NetLink and M8 modules, the entire access power system is now able to be remotely monitored.

The SD4 and SD16 communicate with an NL4 or NLX network module (required) and provide four (4) or sixteen (16) monitored voltage outputs accessible from a network or the internet. An on-board RS485 connection for remote monitoring by NLX allows Distributed Power Monitoring (DPM) throughout an enterprise from a single IP drop, while a temperature probe provides environmental and enclosure parameters for enclosures deployed remotely from the host NetLink module.

Each output on the SD4 and SD16 is jumper programmable to either 12 or 24 volts when used in a dual voltage power system. OutSmart dual color LEDs visually indicate voltage levels by output (green for 12V, blue for 24V). Each output is also network programmable for fire alarm override.

The outputs may also be individually enabled/disabled through a browser interface and the voltage and current of each output may be monitored via network or internet. High and low trigger points may be set for voltage and current for each output to generate an alert when that output is outside of selected parameters.

Features and Functions

- **Auxiliary Device Monitoring** allows remote monitoring and control of devices including access panels, REX devices, and readers

- **Customizable Trigger Points on Output Parameters** provides real-time alerts on current or impending device or wiring problems

- **RS485 Data Connection** allows the SD4 or SD16 to be used in a remotely deployed enclosure in a Distributed Power Monitoring (DPM) application

- **Temperature Sensor** provides environmental data enabling alerts when the product is outside of the customizable optimal data ranges

- **Switch Monitoring Inputs** detect and alert when enclosure tamper switches or other switch contacts are disrupted
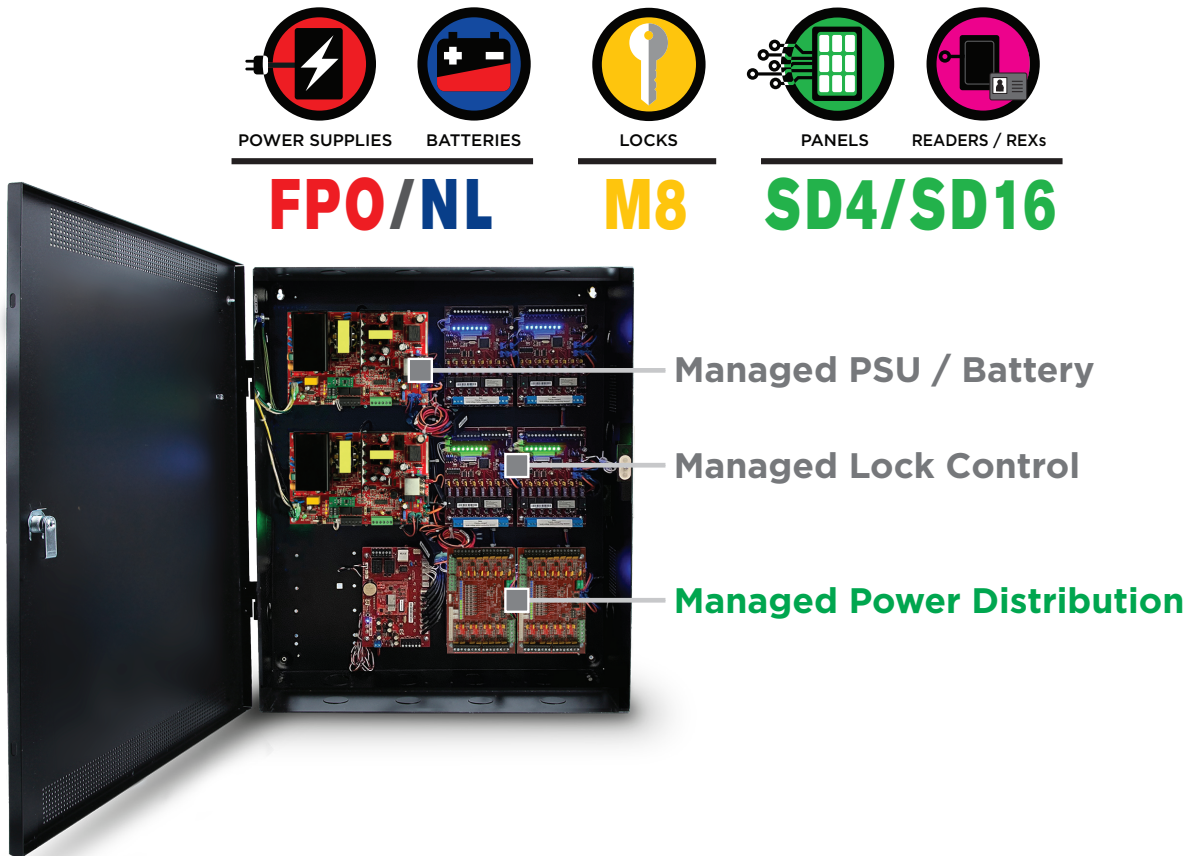
Specifications

Electrical Ratings	Specification
Input Voltage	12 and/or 24 VDC
Input Current	20 Amps max
Output Voltage	12 / 24 VDC
Current / Output	SD4 3A Fused SD4P 2.5A Class 2 power limited SD16 1A Class 2 power limited
Current Measurement Range	0 - 1.5 Amps
Voltage Measurement Range	0 - 30 Volts
Outputs	SD4 4 Fused outputs SD4P 4 Class II power ltd outputs SD16 16 Class II power ltd outputs
Fire Alarm Interface	Per Output

Ordering

Model No.	Type	Mechanical Information
SD4	4 Outputs, Network Managed, Fused	Size: 4" x 2.5 x 1.5" Weight: .25 lb.
SD4P	4 Outputs, Network Managed, Class 2 Power Limited	Size: 4" x 2.5 x 1.5" Weight: .25 lb.
SD16	16 outputs, Network Managed Class 2 Power Limited	Size: 6" x 4 x 1.5" Weight: .50 lb.

Provided with cables and mounting hardware.

LifeSafety Power Access Power Management System

Previously, a network managed power system containing a NetLink and M8 only monitored the power supply, battery set, and locks, leaving the rest of the system unmonitored. By combining the SD4 or SD16 with the M8 and NetLink, the system can now also monitor the access control panels, readers, REX devices and other auxiliary devices. These devices can now also be remotely power cycled individually, greatly reducing labor and cost.

POWER SUPPLIES **BATTERIES** **LOCKS** **PANELS** **READERS / REXs**

FPO/NL **M8** **SD4/SD16**

Managed PSU / Battery

Managed Lock Control

Managed Power Distribution

Network Management

Monitoring and reporting power systems for
- Output condition / System integrity / Battery health

Remote diagnostics and service features
- Four or Sixteen managed outputs
- Individual output monitoring and reporting of
  - Current draw
  - Voltage level
  - Power draw
  - Cycle Count
- Individual output enable / disable
- Remote power cycling control of external equipment

Email or SNMP notification on
- Fire Alarm Interface (FAI) activation
- Abnormal condition - per output basis
  - Over voltage or over current
  - Loss of voltage or current
  - Output cycle count over limit

SNMP set and trap notification
- Version 1, 2, or 3

Applications

- Monitor access control panels, readers, DC cameras, REX devices
- Supervise devices for over stress or wiring problems
- Power cycle DC cameras, access panels, readers, or any edge device

SD4 and SD16 require a NetLink NL4 or NLX module

Additional capabilities through the NetLink interface
- Monitor and report health and status of host power supply and battery set
- Auto-schedule, 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
- Time / date stamp system log reports of last 1000 events

Agency Listings
Product listed for use in LifeSafety Power equipment

UL 294
UL 2044
UL60950-1

Home Screen

Output Details
- Voltage, current, power ratings
- FAI status, output cycle count, and output status

Sensor & Input Details
- Temperature sensor measurements
- Event 1 & Event 2 (enclosure tamper switch) monitoring status

Device ID SD16-1	Model SD16	SD16 Notes					Ver: 1.2

Event1 Status `Inactive`   Event2 Status `Inactive`   Temperature `35.10` °C   Humidity `7.70` %RH

Output #	Output Description	Voltage (V)	Current (A)	Power (W)	FAI State	Cycle Count	Output Status
☐ 1	SD16 Output	12.47	0.00	0.00	Inactive	4	Normal
☐ 2	SD16 Output	12.44	0.00	0.00	Inactive	4	Normal
☐ 3	SD16 Output	12.47	0.00	0.00	Inactive	4	Normal
☐ 4	SD16 Output	12.50	0.00	0.00	Inactive	4	Normal
☐ 5	SD16 Output	12.47	0.00	0.00	Inactive	4	Normal

Programming Screen

Each output can be programmed for
- Voltage output from power supply one
- Voltage output from power supply two
- Fire alarm over ride
- High and low trigger points based on voltage or current values to send an alert via email or SNMP
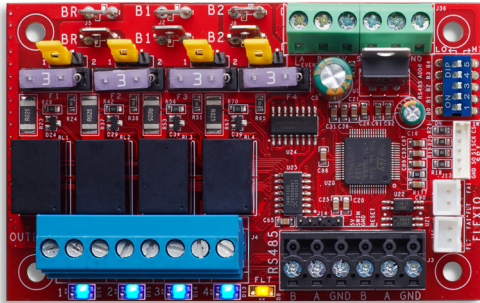
Sensor inputs can be programmed for:
- High and low trigger points based on temperature value to send an alert via email or SNMP

Temperature Lower Limit `-50.0` °C   Humidity Lower Limit `0.0` %RH
Temperature Upper Limit `100.0` °C   Humidity Upper Limit `100.0` %RH

Output #	Output Description	Disable on FAI Activation	Email Alert on Fault	Voltage Lower Limit (V)	Voltage Upper Limit (V)	Current Lower Limit (A)	Current Upper Limit (A)	Cycle Count Limit
	Fill All	Fill All	Fill All	Fill All	Fill All	Fill All	Fill All	Fill All
1	SD16 Output	Yes ˅	No ˅	0.00	29.97	0.00	0.99	100000000
2	SD16 Output	Yes ˅	No ˅	0.00	29.97	0.00	0.99	100000000
3	SD16 Output	Yes ˅	No ˅	0.00	29.97	0.00	0.99	100000000
4	SD16 Output	Yes ˅	No ˅	0.00	29.97	0.00	0.99	100000000
5	SD16 Output	Yes ˅	No ˅	0.00	29.97	0.00	0.99	100000000

Note: Screens shown above are SD16. SD4 screens are similar.

SD4, SD4P

- Four network managed auxlilary outputs
- SD4 - Fused at 3A per output
- SD4P - Class 2 power limited at 2.5A per output
- Temperature Sensor Input
- Event Input (monitors Tamper Switch or other contact)
- Dimensions: 4 x 2.5 x 2.5 inches
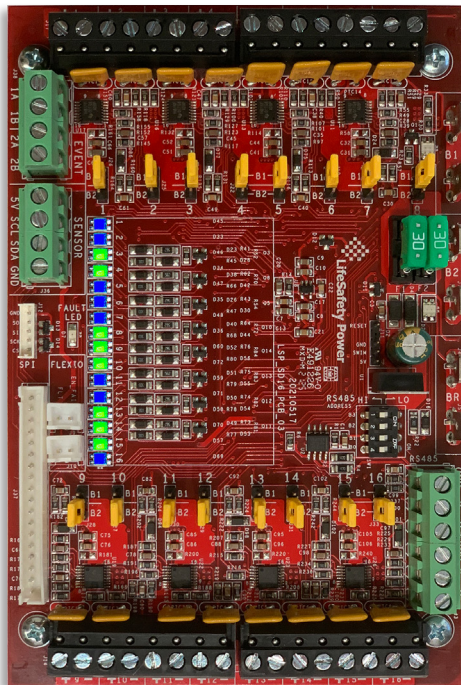
SD16

- Sixteen network managed auxlilary outputs
- Outputs electronically limited at 1A per output
- Temperature Sensor Input
- Event Input (monitors Tamper Switch or other contact)
- Dimensions: 4 x 6 x 2.5 inches

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Specifications subject to change without notice.

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