SOFTWARE HOUSE

From Tyco Security Products

PSX Power Solutions
Network Communication Modules

Features That Make a Difference:

- Monitors and reports on system integrity, battery health, output condition

- Monitors 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 and date stamp system log reports of last 1000 events

- Email notification on AC and system fault occurrences, aging or drained battery, Fire Alarm Interface(FAI) activation, outside current or voltage preset limits, external room temperatureoutside preset limit, and external event activation

- Choice of two- and four-port models

- SNMP support for get, set, and trap notification

PSX Network Communication Module is a two or four data port network module that communicates and controls power status over a local or wide area network. This module provides two or four SPI ports for connection to PSX power supplies that enable 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.

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 at a selectable rate with all parameters in normal range. 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.

In addition to two (or four) SPI connections, PSX Network Communication Module provides current sensor inputs, a remote temperature sensor input, a volt meter 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 relay modules or interfacing to the PSX Lock Control Module.

Specifications

Inputs/Outputs

Input Operating Voltage. . . . . . . 9 to 30V DC
Input Operating Current. . . . . . . 60mA nominal
Network Data Rate . . . . 10/100 Mbs
Voltage Measurement Range. . . 1 to 30V DC ± 5%
Current Measurement Range. . . 0 to 20A ±0.1A +5% of reading
Event Input . . . . 9 to 32V DC
Outputs 1 & 2
Maximum Sink Current . . . . 50 mA nominal

Physical

Dimensions (W x L x H). . . . . . . 6.4 x 10 x 4.0 cm (2.5 x 4.0 x 1.5 in)
Weight. . . . . 0.14 kg (0.30 lb)
Operating Temperature . . . . 0° to 50°C (32° to 122°F)

Regulatory (As Part of Enclosure-Based System)

ETL UL294, UL2044, UL60950-1

Ordering Information

Model Numbers	Description
PSX-NL2	Two port network communication module
PSX-NL4	Four port network communication module

Monitoring / Reporting / Test / and Control Functions

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

- AD Fault Delay
- System Fault Delay
- System Install Date
- Reset Fault Counters
- Optimal Battery Charge Current
- Reset Battery Age Counter
- Battery Replacement Period
- Temperature Probe Trigger Parameters

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 Cue Alert
- Battey Replacement Due Alert
- Event Activation Alert (user specified)

Test Functions

- Battery Run Time Capacity
- Battery State of Change

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