IMPRS
Proteus™

Overview

When it comes to contact and environmental management, the IMPRS Proteus™ is the perfect fit, providing a feature rich, cost-effective solution. The IMPRS Proteus™ baseline features are vital during storms. This includes the ability to view at a glance items such as battery dissipation during AC power failures, ambient temperatures, and generator running duration. In addition to the baseline features, the IMPRS Proteus™ provides an optional WiFi Bridged Hotspot providing technicians secure access to the management network.

The IMPRS Proteus™ includes five dry contact inputs, an internal temperature sensor, an external temperature sensor, and dual power input sensors. The alarm inputs detect open or closed and provide notification of the alarm condition. The consensus from our research is that the most common alarm inputs are rectifier failure, door alarm, AC power fail, generator running, and generator exercise failure. The IMPRS Proteus™ can manage all of these out-of-the-box.

Features

Analog Probes
• Internal & External Sensors
• A & B Voltage Sensors
• Realtime Voltage and Temperature Monitoring
• Alarm Transition via Thresholding

Digital Inputs
• Link to WiFi & Voltage Monitoring
• Alarm Duration Tracking
• Alarm on Absence in Timespan
• Fire/Clear Bounce Mitigation

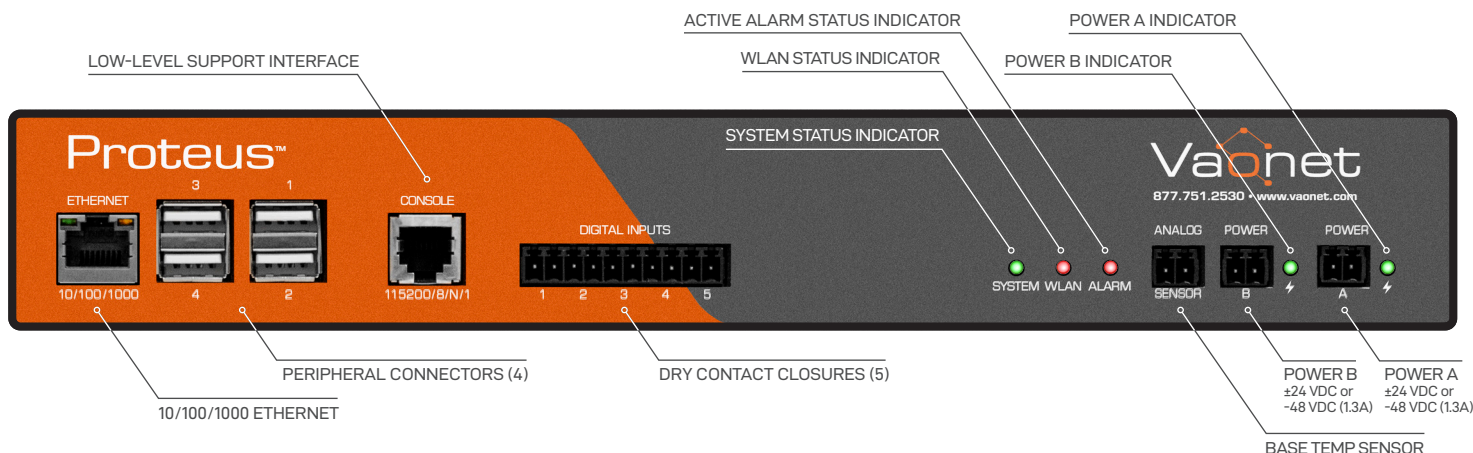### Management
• AutoConfig/Data Backup via FTP
• Remote Admin, Restore, Upgrade
• Simple Intuitive Admin Interface

Responsive Web Interface
• Smartphone/Tablet/Desktop
• At-a-glance Dashboard
• Complete Statistical History

Connectivity
• 10/100/1000 Network Interface
• Hotspot Bridge to Wired Network
• WiFi Startup via Digital/ Dashboard/Config
• Wired Interface Monitoring

Alarms & Statistics
• SMTP, SNMP Alarm Delivery
• Full Statistics Collection
• Statistics Analysis Graphs

ACTIVE ALARM STATUS INDICATOR
WLAN STATUS INDICATOR
SYSTEM STATUS INDICATOR
POWER A INDICATOR
POWER B INDICATOR
LOW-LEVEL SUPPORT INTERFACE
PERIPHERAL CONNECTORS (4)
10/100/1000 ETHERNET
DRY CONTACT CLOSURES (5)
POWER B ±24 VDC or −48 VDC (1.3A)
POWER A ±24 VDC or −48 VDC (1.3A)
BASE TEMP SENSOR

Feature Highlights

Alarm Notification
The IMPRS Proteus™ supports several notification types, SNMP, Syslog, and Email. Depending on your deployment scenario, our staff can assist in creating the most effective notification process.

WiFi Bridged Hotspot
The IMPRS Proteus™ supports an optional fully configurable WiFi Hotspot that acts as a bridge to the wired network. If configured, the Hotspot can activate when a contact closure is detected, such as "door open". Upon activation, authorized technicians have direct access to the wired network without any delays. The hotspot status and active leases can be viewed on the web interface.

Input Absence Detection
Sorting through reports to verify input state change for items, such as generator running, can lead to overlooked failures. The IMPRS Proteus™ can detect the absence of an input state change when configured to monitor for the state change within a given time period. In the event the input does not change state, a unique alarm will be generated.

Battery Dissipation Analysis
When configured, voltage monitoring graphs are created during a commercial power failure. During the outage, power input 'A' readings are stored in flash memory. Once commercial power is restored, a detailed voltage graph is created and accessible from the web interface. The graphs provide a clear view of the battery response during major power outages.

Automated Backup
Configuration and alarm history can be configured to backup daily and upon configuration changes. The backup manager maintains a 7 day historical depth.

Integrated Graphs
Integrated graphs are available for power inputs, temperature sensors, and contact duration. Digital graphs illustrate frequency and duration of input activity, while analog graphs illustrate temperature fluctuations and voltage dissipation over time. The dashboard graphically shows sensor activity over the last 24 hours. Expanded graphs plot up to 90 days in the past to capture possible trends and are available for inclusion in reports.

Real-time Voltage Monitoring
The IMPRS Proteus™ is equipped with dual power input sensors, A/B, with threshold-based alarming. Each input can be configured to alert on over and under voltage thresholds. Thresholds are configurable via the web interface. Real-time readings are available on the web interface and Probe Stats Cache.

Real-time Temperature Monitoring
The IMPRS Proteus™ is equipped with internal and external temperature sensors with threshold-based alarming. Each sensor can be configured to alert on over and under temperature thresholds. Thresholds are configurable via the web interface. Real-time readings are available on the web interface and Probe Stats Cache.

Ramp Detection
The IMPRS Proteus™ can detect acute changes in readings over user-defined time intervals for both voltage and temperature.

UP-RAMP Detection: As a hot summer day begins, a struggling HVAC system may lose ground as outside temperatures start to climb. The resulting rapid temperature increase inside the office is illustrated as a graph and reported as an alarm.

DOWN-RAMP Detection: A swift voltage drop while running on batteries could indicate a cell failure in the backup power plant. That drop can be detected, illustrated as a graph, and reported as an alarm.

Dashboard
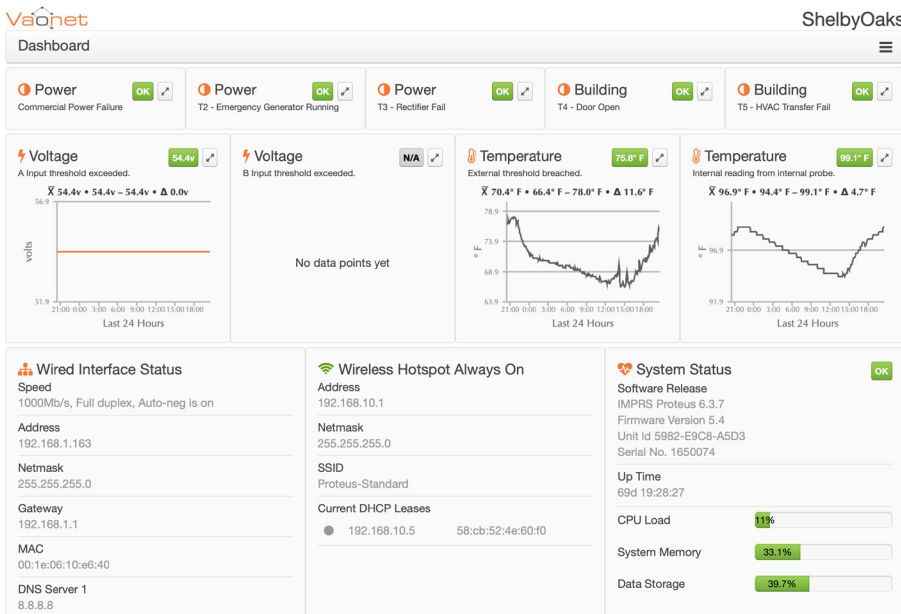
Specifications

Connectivity
(1) 10/100/1000 Ethernet

Inputs
(2) ±24 VDC or -48 VDC (1.3A)
(5) Dry Contact Closures
(1) Temperature Sensor

Alarm Protocol
Email Notification/Status Update
SNMP V2c (MIBs available upon request)
Syslog

Dimensions
(H) 1.75″ (4.445cm) • (W) 11.125″
(28.257cm)* • (L) 3.75″ (9.525cm)
*Excludes Rack Mounting Brackets

Operating Temperature
-13°F to 159°F
-25°C to 70°C

Remote Management
Web Browser • SSH

Visit **http://proteus.vaonet.com** for a real-time view of the Proteus with login credentials View/Demo.

If you have any issues connecting or logging into the Proteus, please contact Vaonet Sales at **877-751-2530 Opt. #2**.