SNMP and Web Monitoring/Management of Critical IT and A/V Operations

Environment Monitoring
- Temperature
- Humidity
- Water Leaks
- Smoke
- Power
- Motion / Intrusion
- Vibration
- Carbon Monoxide

Alert Notifications
- Email
- SNMP
- Voice Phone Calls
- SMS Messages
- Front Panel LEDs
- Web Page

Key Features
- Sensors are hot pluggable
- Monitor (ping) up to 16 IP network devices – alerts are sent if devices are not responding
- Sensor conditions (events) can be configured to trigger alerts by themselves, and/or be used in combination with other events to trigger Smart Alerts.
- Integrates with various Open Source monitoring packages – Nagios, MRTG and others.
  - The unit can be polled via SNMP.
- Optional battery backup – alerts are sent when there is a power outage and when power returns
- USB ports for connecting USB modem, for downloading log data to USB flash drive, and for serial terminal interface
- Flexible Zero-RU mounting; optional DIN mounting available
- Supports IP network video cameras for live view of any facility.
- Security: HTTPS, SSHv2, SSLv3, TLS, IP Filtering, LDAPv3, AES 256-bit encryption, 16-character username/password authentication, user account restricted access rights.
- Linux inside
- Optional industrial model for high temperature environments. This industrial system has the ability to operate and monitor in harsh environments at high temperatures up to 167°F (75°C).

Configuration and Cable Illustration

The ENVIROMUX® Mini Server Environment Monitoring System monitors critical environmental conditions (such as temperature, humidity, and water leakage) that could destroy network components in your server room. When a sensor goes out of range of a configurable threshold, the system will notify you via email, SNMP traps, web-page alerts, a visual indicator (red LED), voice phone calls (via Automatic Voice Dialer System), and SMS messages (via email-to-SMS or external USB modem).
SNMP and Web Monitoring/Management of Critical IT and A/V Operations

E-MINI-LXO / E-MINI-LXO-IND

<table>
<thead>
<tr>
<th>Sensor Ports</th>
<th>2 RJ45 jacks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Digital Inputs</td>
<td>5 screw terminal pairs</td>
</tr>
<tr>
<td>Output Relay</td>
<td>1 screw terminal pair; normally open / normally closed connection points</td>
</tr>
<tr>
<td>USB Console Port</td>
<td>One female USB Type B connector for terminal access</td>
</tr>
<tr>
<td>Ethernet Port</td>
<td>One 10/100 Base-T Ethernet port with RJ45 jack</td>
</tr>
<tr>
<td>USB Ports</td>
<td>2 female USB Type A connectors for connecting USB modem or for downloading log data to USB flash drive</td>
</tr>
</tbody>
</table>

Alerts

| Email | Y |
| Web Page | Y |
| SNMP network management | Y |

| Front Panel LEDs | LEDs for sensors and power |
| Voice Phone Calls | Via Automatic Voice Dialer System (not included) |
| SMS Messages | Via external USB modem (not included) |

Smart Alerts

- Up to 50 sensor conditions (events) can be configured to trigger alerts by themselves
- Up to 20 Smart Alerts can be configured to use different event combinations to send alert messages

Control Methods

<table>
<thead>
<tr>
<th>Web Interface</th>
<th>HTTP/HTTPS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Supports up to 16 user accounts</td>
<td></td>
</tr>
<tr>
<td>Telnet</td>
<td>Y</td>
</tr>
<tr>
<td>Two user levels: user and administrator</td>
<td></td>
</tr>
<tr>
<td>Network Operation (SNMP)</td>
<td>V1/V2c/V3</td>
</tr>
<tr>
<td>USB Serial Interface</td>
<td>Y</td>
</tr>
<tr>
<td>Two user levels: user and administrator</td>
<td></td>
</tr>
</tbody>
</table>

Monitor (Ping) IP Devices

Up to 16 devices

| Restore Defaults Button | Y |
| System Reset Button | Y |

Protocols

HTTP/HTTPS, SNMP V1/V2c/V3, SMTP, TCP/IP, Syslog, SMTP, DHCP, SSHv2, SSLv3, TLS v1.2, LDAPv3, AES 256-bit, 3DES, Blowfish, RSA, EDH-RSA, Arcfour, IPv6, WAP 2.0

Flash Upgradeable

Y

Operating Temperature

- E-MINI-LXO: 32°F to 104°F (0°C to 40°C).
- E-MINI-LXO-IND: 32°F to 167°F (0°C to 75°C).

Storage Temperature

-20°F to 176°F (-20°C to 80°C).

Operating & Storage Relative Humidity

5 to 90% non-condensing RH

Power

- 110 or 220 VAC at 50 or 60 Hz via AC adapter
- Optional backup battery – provides backup power for two hours
- Use the PWR-48V-12V1-6A DC-DC power converter to install the E-MINI-LXO in a 48V or 24V Telecom environment.

Dimensions WxDxH (in)

5.67x2.10x2.10

Mounting

Zero-RU

Optional DIN rail mounting

Regulatory Approvals

CE, RoHS

Warranty

2 years