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

Environment Monitoring
- Remote Temperature/Humidity Sensors over IP
- Temperature
- Humidity
- Water/Chemical Leaks
- Weather
- Power
- Motion / Intrusion / Vibration
- Smoke / Gas
- Live Video & More

Alert Notifications
- Email
- SNMP
- Siren or Alarm Beacon
- Webpage
- Voice Phone Calls
- SMS Messages
- Front Panel LEDs

Key Features
- Supports NTI's advanced sensors which can be extended up to 1,000 feet using Cat5/5e/6 cable.
  - Sensors are hot pluggable.
- Monitor (ping) up to 64 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 and MRTG.
  - The unit can be polled via SNMP.
- Optional internal battery backup – alerts are sent when there is a power outage and when power returns.
- USB ports for connecting USB modem or for downloading log data to USB flash drive.
- Supports IP network video cameras for live view of any facility.
  - Any programmed event can trigger a snapshot from an IP camera.
- Cascade up to 5 units via Ethernet connection (1 master, 4 slaves) to increase the number of sensors connected
- Available with dual redundant power for connection to two separate power sources. (The second power supply is sold separately.)
- Optional industrial medium environment monitoring systems for harsh environments with low/high temperatures from -40 to 185°F (-40 to 85°C).
  - Industrial model with backup battery: 32 to 140°F (0 to 60°C)
- Optional intuitive graphical management software provides an easy-to-use, unified interface for both monitoring and configuring up to 3,000 E-2D/5D/16D, E-SEMS-16(U), IPDU-S4/8 units and all connected sensors.
  - Available with optional 48VDC power
  - Multi-language support – English, German, Chinese, and Japanese.
  - Linux inside.

The ENVIROMUX® Medium Enterprise Environment Monitoring System monitors critical environmental conditions, such as temperature, humidity, liquid water presence, power, intrusion, and smoke. When a sensor goes out of range of a configurable threshold, the system will notify you via email, LEDs, alarm beacon, siren, web page, network management (SNMP), voice phone calls (via Automatic Voice Dialer System), and SMS messages (via email-to-SMS or external USB modem).

The system includes two internal sensors: temperature and humidity. It also supports five external configurable sensors, five digital input sensors, and two output relays for control of external devices.
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### E-SD

**Internal Sensors**
- **Temperature (monitors inside case)**
  - E-SD: 32 to 140°F (0 to 60°C), ±0.72°F (±0.40°C)
  - E-5DB: 32 to 104°F (0 to 40°C), ±0.72°F (±0.40°C)
  - E-5D-IND: 32 to 176°F (0 to 80°C), ±0.72°F (±0.40°C)
  - E-5DB-IND: 32 to 140°F (0 to 60°C), ±0.72°F (±0.40°C)
- **Humidity (monitors inside case)**
  - E-SD: 20% to 80% relative humidity at 32 to 140°F (0 to 60°C), ±3%
  - E-5DB: 20% to 80% relative humidity at 32 to 104°F (0 to 40°C), ±3%
  - E-5D-IND: 20% to 80% relative humidity at 32 to 176°F (0 to 80°C), ±3%
  - E-5DB-IND: 20% to 80% relative humidity at 32 to 140°F (0 to 60°C), ±3%

**RJ45 Sensor Ports**
- 2 - Provides +12 VDC, 100 mA for each port

**Digital Inputs – Screw Terminal Pairs**
- 5 - Input voltage: 0VDC to +25VDC

**Output Relays – Screw Terminal Pairs**
- 2 (Normally open / normally closed connection points)
  - Maximum switching load: 0.5A at 125VAC, 1A at 30VDC, 0.5A at 48VDC.

**Remote Temp/Humidity Sensors over IP**
- 8

**Remote 1-Wire Sensors over IP**
- 4

**Alarm Port – Screw Terminal Pair**
- 1

**USB Console Port**
- One female USB Type B connector for terminal access

**RS232 AUX Port**
- One RJ45 port for connecting a serial GSM modem or a remotely controlled device

**AUX Port – Screw Terminal Pair**
- 1 (12V)

**Ethernet Port**
- One 10/100 Base-T Ethernet port with RJ45 Ethernet connector

**USB Port**
- 4 female USB Type A connectors for connecting USB modem or for downloading log data to USB flash drive

**Alerts**
- 7 methods
  - **Email**: Authenticates
  - **SNMP network management**: V1/V2c/V3
  - **Front Panel LEDs**: LEDs for sensors and power
  - **SMS Messages**: Via external USB 3G modem (not included)
  - **Voice Phone Calls**: Via automatic voice dialer system (not included)
  - **External Alarm**: Via alarm beacon or siren (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

**Alarm Silence / Test Button**
- ✓

**Control Methods**
- 5 methods
  - **Web Interface**: HTTP/HTTPS
  - **Telnet**: ✓
  - **SSH**: ✓
  - **Network Operation (SNMP)**: V1/V2c/V3

**Monitor (Ping) IP Devices**
- Up to 64 devices

**Protocols**
- HTTP/HTTPS, SNMP V1/V2c/V3, SMTP, TCP/IP, Syslog, SNTP, DHCP, SSHv2, SSLv3, TLS v1.2, LDAPv3, XOAUTH2, AES 256-bit, 3DES, Blowfish, RSA, EDH-RSA, Arcfour, IPV6, WAP 2.0, RADIUS

**Languages Supported**
- English, German, Chinese, Japanese

**Flash Upgradeable**
- ✓

**Restore Defaults Button**
- ✓

**System Reset Button**
- ✓
## SNMP and Web Monitoring/Management of Critical IT and A/V Operations

<table>
<thead>
<tr>
<th>Feature</th>
<th>E-5D</th>
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<tbody>
<tr>
<td><strong>Operating Temperature</strong></td>
<td>E-5D: 32 to 140°F (0 to 60°C)</td>
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<tr>
<td></td>
<td>E-5DB: 32 to 104°F (0 to 40°C)</td>
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<td></td>
<td>E-5DB-IND: 32 to 140°F (0 to 60°C)</td>
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<td></td>
<td>E-5D-INDLT/IND48VLT: -40 to 185°F (-40 to 85°C)</td>
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<tr>
<td><strong>Power</strong></td>
<td>Dual DC power</td>
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<tr>
<td></td>
<td>Input: 100 to 240 VAC at 50 or 60 Hz via AC adapter</td>
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<td>Output: 9 VDC, 3A</td>
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<td></td>
<td>Optional 48VDC power.</td>
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<tr>
<td><strong>Expandable/Cascade</strong></td>
<td>Up to 5 units via Ethernet connection (1 master, 4 slaves)</td>
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<td>Up to 3,000 units via optional management software</td>
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<tr>
<td><strong>Dimensions WxDxH (in)</strong></td>
<td>E-5D(-D): 7.88x3x1.75 in (200x76x44 mm)</td>
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<tr>
<td></td>
<td>E-5DB(-D): 7.88x3x1.75 in (200x76x44 mm)</td>
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<td>E-5D-48V(LT): 10.6x3.1x1.75 in (269x79x44 mm)</td>
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<td></td>
<td>E-5D-IND(LT): 7.88x3x1.75 in (200x76x44 mm)</td>
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<tr>
<td><strong>Mounting</strong></td>
<td>Zero-RU</td>
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<td>Optional DIN mounting</td>
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<tr>
<td></td>
<td>Optional 1RU rackmount kit (mountable with sensor connectors facing the front or back of the rack)</td>
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<tr>
<td><strong>Regulatory Approvals</strong></td>
<td>CE, RoHS</td>
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