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
- Webpage
- Voice Phone Calls
- SMS Messages
- Alarm Beacon
- 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.
- Internal 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, or for connecting a USB LCD screen.
- 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 RS485 serial &/or Ethernet connection (1 master, 4 slaves) to increase the number of sensors connected
- Available with optional dual power for connection to two separate power sources.
- Available with optional 48VDC or 24VDC power.
- 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.
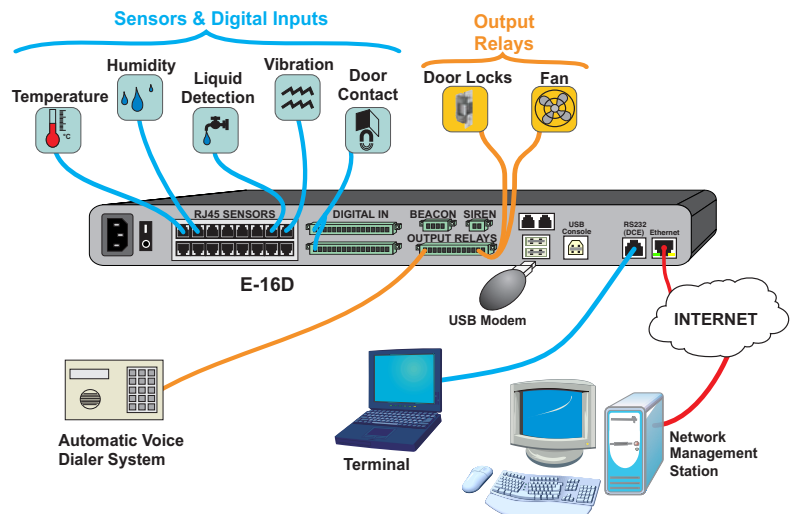- Multi-language support – English, German, Chinese, and Japanese.
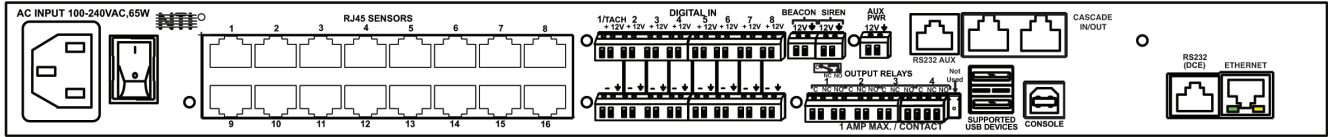- Linux inside.

E-16D (Front & Back)

- **16 external configurable sensors, 8 digital inputs, 4 output relays**
- **Configure Smart Alerts for different event combinations**
- **Linux inside**
- **User-programmable IP camera snapshots**
- **Cascade up to 5 units via RS485 serial &/or Ethernet connection (1 master, 4 slaves)**

The ENVIROMUX® Server 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 USB 3G modem).

The system includes three internal sensors: temperature, humidity and power. It also supports 16 external configurable sensors, eight digital input sensors, and four output relays for control of external devices.

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

	E-16D
Internal Sensors	3
Temperature	Applications from 32 to 104°F (0 to 40°C)
Humidity	Applications from 20 to 80% relative humidity at temperatures between 32 to 104°F (0 to 40°C)
Power	Measures main voltage: 0 to 255 VAC
	Measures battery votage: 0 to 20 VDC
RJ45 Sensor Ports	16
Digital Inputs – Screw Terminal Pairs	8
Output Relays – Screw Terminal Pairs	4 (Normally open / normally closed connection points)
Remote Temp/Humidity Sensors over IP	**8**
Beacon Port – Screw Terminal Pair	1
Siren Port – Screw Terminal Pair	1
USB Console Port	One female USB Type B connector for terminal access
RS232 (DCE) Port	One female RJ45 RS232 connector for terminal access
AUX Port – Screw Terminal Pair	1 (12V)
Ethernet Port	One 10/100 Base-T Ethernet port with RJ45 Ethernet connector
USB Port	Four female USB Type A connectors for connecting USB modem or for downloading log data to USB flash drive.
Alerts	8 methods
Email	Authenticates
Web Interface	✓
SNMP network management	V1/V2c/V3
Front Panel LEDs	LEDs for internal sensors, external sensors, backup battery, data log, power, AUX power
SMS Messages	Via external USB 3G modem (not included)
Voice Phone Calls	Via automatic voice dialer system (not included)
Alarm Beacon	✓ (not included)
Siren	✓ (not included)
Small Alerts	Up to 50 sensor conditions (events) can be configured to trigger alerts by themselves
messages	Up to 20 Smart Alerts can be configured to use different event combinations to send alert
Alarm Silence / Test Button	✓
Control Methods	6 methods
Web Interface	HTTP/HTTPS
Telnet	✓
SSH	✓
Network Operation (SNMP)	V1/V2c/V3
RS232	✓ (via female RJ45 RS232 connector & female USB Type B connector)
Expandable/Cascade	Up to 5 units via RS485 serial and / or Ethernet connection (1 master, 4 slaves)
	Up to 3,000 units via optional management software
Monitor (Ping) IP Devices	Up to 64 devices
Protocols	HTTP/HTTPS, SNMP V1/V2c/V3, SMTP, TCP/IP, Syslog, SNTP, DHCP, SSHv2, SSLv3, TLS, 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	✓
Operating Temperature	32 to 104°F (0 to 40°C)
Power	110 or 230 VAC at 50 or 60 Hz via IEC connector
	Options: dual power, 24VDC, 24VDC dual power, 48VDC, 48VDC dual power
	Backup battery – provides backup power for one hour
Dimensions WxDxH (in) (all options)	16.19x10.01x1.75 (without supplied rackmount kit); 19x10.01x1.75 (with rackmount kit)
Regulatory Approvals	CE, RoHS