

# Enterprise Environment Monitoring System

## ENVIROMUX®

### 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/MICRO/1W units and all connected sensors.
- Multi-language support – English, German, Chinese, and Japanese.
- Linux inside.
- Internal memory:
  - E-16D: up to 1,724 data log entries and 1,000 event log entries are stored.
  - E-16DEL: up to 1,200,000 data log entries and 3,000 event log entries are stored.
    - ♦ 256 MB non-volatile memory – both the data log and event log persist after power cycle.



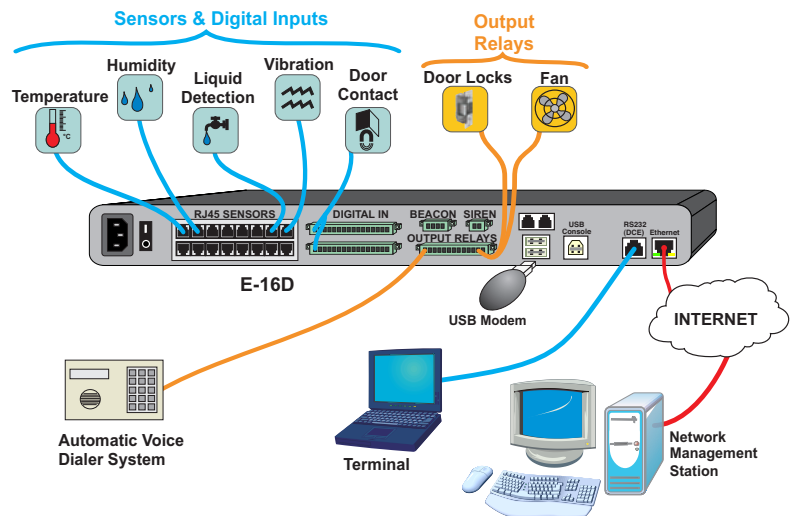
E-16D (Front & Back)

 Designed and Manufactured in the USA

- 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 email-to-SMS or external USB modem).

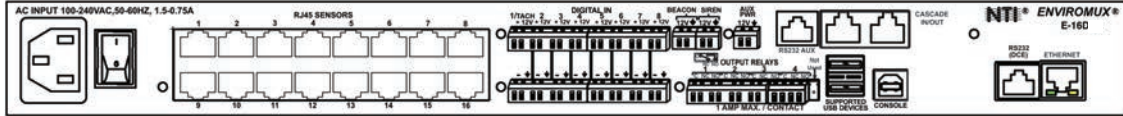
The system includes three internal sensors: temperature, humidity and power. It also supports 16 external configurable sensors, eight digital input sensors, and four output relays for control of external devices.



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		E-16D
<b>Internal Sensors</b>		3
Temperature (monitors inside case)		Applications from 32 to 104°F (0 to 40°C)
Humidity (monitors inside case)		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 voltage: 0 to 20 VDC
<b>RJ45 Sensor Ports</b>		16
<b>Digital Inputs – Screw Terminal Pairs</b>		8
<b>Output Relays – Screw Terminal Pairs</b>		4 (Normally open / normally closed connection points)
<b>Remote Temp/Humidity Sensors over IP</b>		8
<b>Remote 1-Wire Sensors over IP</b>		4
<b>Beacon Port – Screw Terminal Pair</b>		1
<b>Siren Port – Screw Terminal Pair</b>		1
<b>USB Console Port</b>		One female USB Type B connector for terminal access
<b>RS232 (DCE) Port</b>		One female RJ45 RS232 connector for terminal access
<b>AUX Port – Screw Terminal Pair</b>		1 (12V)
<b>Ethernet Port</b>		One 10/100 Base-T Ethernet port with RJ45 Ethernet connector
<b>USB Port</b>		Four female USB Type A connectors for connecting USB modem or for downloading log data to USB flash drive.
<b>Alerts</b>		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 modem (not included)
Voice Phone Calls		Via automatic voice dialer system (not included)
Alarm Beacon		✓ (not included)
Siren		✓ (not included)
<b>Small Alerts</b>		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
<b>Alarm Silence / Test Button</b>		✓
<b>Control Methods</b>		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)
<b>Expandable/Cascade</b>		Up to 5 units via RS485 serial and / or Ethernet connection (1 master, 4 slaves) Up to 3,000 units via optional management software
<b>Monitor (Ping) IP Devices</b>		Up to 64 devices
<b>Protocols</b>		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
<b>Languages Supported:</b>		English, German, Chinese, Japanese
<b>Flash Upgradeable</b>		✓
<b>Restore Defaults Button</b>		✓
<b>System Reset Button</b>		✓
<b>Operating Temperature</b>		32 to 104°F (0 to 40°C)
<b>Power</b>		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
<b>Dimensions WxDxH (in) (all options)</b>		16.19x10.01x1.75 (without supplied rackmount kit); 19x10.01x1.75 (with rackmount kit)
<b>Regulatory Approvals</b>		CE, RoHS, TAA compliant