

## NTI e-16ddp Large Enterprise Environment Monitoring System with Dual AC Power

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### Features:

- Monitor and manage server room environmental and security conditions over IP.
- Sensors supported:
  - 16 external configurable sensors
  - 8 digital inputs sensitive to contact closure
  - 3 internal sensors – temperature, humidity, power
  - 8 Remote Temperature/Humidity Sensors over IP
    - E-MICRO-T: 1 integrated temperature sensor, 2 RJ45 ports for external temperature/humidity sensors, 2 digital inputs sensitive to contact closure, dual DC power (dual redundancy).
    - E-MICRO-TRHP: 1 integrated temperature/humidity combination sensor, 2 RJ45 ports for external temperature/humidity sensors, 2 digital inputs sensitive to contact closure, built-in Power over Ethernet (POE), dual DC power (triple redundancy).
  - 4 Remote 1-Wire Sensors over IP
    - E-1W(P): two RJ11 connectors for daisy-chaining many 1-wire temperature/humidity/dew point, thermocouple, or digital input expanders in any combination (up to 24 single-reading 1-wire sensors); two digital inputs sensitive to contact closure; dual DC power; optional Power over Ethernet (POE).
- Four output relays for control of external devices.
  - Relay activates upon alarm or via the user interface.
  - Control output relays via SNMP SET commands to power on/off external devices.
- Supports IP network video cameras for live view of any facility.
  - One integrated view – see different Web cameras side-by-side with physical and environmental parameters.
  - Any programmed event can trigger a snapshot from an IP camera.
- Monitor (ping) up to 64 IP network devices.
  - Alerts are sent if devices are not responding
- Linux inside.
- Create multiple alerts for any installed sensor.
- Sensor conditions (events) can be configured to trigger alerts by themselves, and/or be used in combination with other events to trigger Smart Alerts.
  - Configure up to 50 events.
    - Setup SSH commands to be sent when events are triggered to soft shutdown or reboot machines.
  - Up to 20 Smart Alerts can be configured to use different event combinations to send alert messages.
- Alerts are posted in message log, which is accessible through Web user interface.
- Automatically configures network settings received from a connected DHCP server.
  - If a DHCP server is not found, the default static IP address will be used.
- Integrates with various Open Source monitoring packages - Nagios and MRTG.
  - The unit can be polled via SNMP.
- USB ports for connecting USB modem or for downloading log data to USB flash drive.
- Internal battery backup.
  - Alerts are sent when there is a power outage and when power returns.
- Available with optional dual power for connection to two separate power sources.
- Up to five units can be connected via Ethernet connection or using CAT5 expansion cables to increase the number of sensors connected.

- Cascade up to four E-2D/5D/16D units as slaves to one E-2D/5D/16D master unit via Ethernet connection.
  - Each master and slave unit needs its own unique IP address.
- Cascade up to four E-16D units as slaves to one E-16D master unit using CAT5/5e/6 patch cables with RJ45 connectors wired straight through.
  - Each slave unit needs its own unique RS485 address value that can range from 1-255.
- Uses a single Web interface for all systems/sensors connected.
- With optional VDC 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.
- 1RU rack mount case is standard.
  - The ENVIROMUX system can be mounted so that the sensor connectors are facing the front or back of the rack.
- Security: HTTPS, SSHv2, SSLv3, IP Filtering, LDAPv3, AES 256-bit encryption, 16-character username/password authentication, user account restricted access rights.
- Multi-language support – English, German, Chinese, and Japanese.
- Use in data centers, co-lo sites, web hosting facilities, telecom switching sites, POP sites, server closets, or any unmanned area that needs to be monitored.