NTI e-micro-t Micro Environment Monitoring System/Integrated Temperature Sensor

RJ45 Sensor Ports

- Two RJ45 modular jacks for connecting temperature sensors or combined temperature/humidity sensors.
  - Three levels of user-defined alerts – normal, warning, critical.

Dry Contact Closures

- Two screw terminal pairs for connecting dry contact devices and the liquid detection sensor.

USB Port

- One female Micro USB connector - reserved for future use.

Ethernet Port

- One female RJ45 connector.
- 10/100 Base-T Ethernet interface.

Protocols

- HTTP/HTTPS, SNMP V1/V2c, SMTP, TCP/IP, Syslog, SNTP, DHCP, TLS v1.2, AES 256-bit, 3DES, Blowfish, RSA, EDH-RSA, Arcfour.
- Compatible with any SNMP management software.
  - The unit can be polled via SNMP.
- Operates and configures via HTTP/HTTPS web page.
- An IP address can be assigned to the E-MICRO automatically by a DHCP server.
- Generates SNMP traps, email alerts, syslog messages, and SMS messages (via email-to-SMS).
  - Alerts are posted in event log, which is accessible through Web user interface.
  - Email alerts can be sent to 9 addresses.
    - Users can configure the schedule for when they will be alerted.

Integrated Temperature Sensor

- Applications from -4 to 167°F (-20 to 75°C).
- Accuracy
  (in moving air – minimum airflow 8.2 ft/s (2.5 m/s)):
  - ±0.72°F at 14 to 167°F (±0.4°C at -10 to 75°C).
  - ±0.9°F at -4 to 14°F (±0.5°C at -20 to -10°C).
- Resolution: 0.2°F (0.1°C).

Integrated Humidity Sensor
(E-MICRO-TRHP only)

- Applications from 0 to 90% relative humidity at temperatures between -4 to 167°F (-20 to 75°C).
- Accuracy:
  - 0 to 80% relative humidity, ±3%
  - 80 to 90% relative humidity, ±4%

Dimensions

- WxDxH in (all options): 4x3.44x1.37 (102x87x35 mm).
- Includes mounting holes to match rack hole spacing.

Power

- E-MICRO-T:
  - Dual DC power provides dual redundancy.
    - If the first power source fails, the unit will automatically, without interruption, switch over to the second power source.
    - The unit draws power from the source with the highest DC voltage (nominal 5.5V).
      - If both sources have exactly the same voltage, it will draw in part from each of them.
  - 110 to 240 VAC at 50 or 60 Hz via AC adapter.
    - Includes one country-specific AC adapter. The second AC adapter is sold separately (PWR-SPLY-ELC).
  - Input voltage: 5.5VDC ±5%
  - Power consumption: 4W max.
- E-MICRO-TRHP:
  - Built-in Power over Ethernet and dual DC power provides triple redundancy.
    - Power over Ethernet standards supported: IEEE 802.3af, 802.3at.
      - Proprietary schemes such as Cisco Discovery Protocol are not supported.
        - Similar legacy switches and routers will have to use PWR-SPLY-ELC.
  - If the first power source fails, the unit will automatically, without interruption, switch over to the second power source.
  - The unit draws power from the source with the highest DC voltage (nominal 5.5V).
    - If two or more sources have exactly the same voltage, it will draw in part from each of them.

- 110 to 240 VAC at 50 or 60 Hz via AC adapter (not included).
    - Country-specific AC adapters sold separately (PWR-SPLY-ELC).
- Input voltage: 5.5VDC ±5%
- Power consumption: 4W max.

MTBF

- E-MICRO-T: 648,857 hours.
- E-MICRO-TRHP: 628,394 hours.

Environmental

- Operating & Storage Temperature: -4 to 167°F (-20 to 75°C).
- Operating & Storage Relative Humidity: 0 to 90% non-condensing RH.

Regulatory Approvals

- CE, RoHS.

Warranty

- Two years