

NTI e-micro-trhp Micro Environment Monitoring System/Integrated Temp/Humidity Sensor/PoE

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)):
 - $\pm 0.72^{\circ}\text{F}$ at 14 to 167°F ($\pm 0.4^{\circ}\text{C}$ at -10 to 75°C).
 - $\pm 0.9^{\circ}\text{F}$ at -4 to 14°F ($\pm 0.5^{\circ}\text{C}$ 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, $\pm 3\%$
 - 80 to 90% relative humidity, $\pm 4\%$

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 $\pm 5\%$
 - 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 \pm 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