

# NTI e-1wp Environment Monitoring System with 1-Wire Sensor Interface over Ethernet (PoE)

## RJ11 Sensor Ports

- Two RJ11 6P4C jacks for daisy-chaining 1-wire temperature/humidity/dew point, thermocouple, or digital input expanders in any combination.
  - Up to 24 temperature, thermocouple, or any single reading 1-wire sensor can be split between both RJ11 connectors.
  - Up to 8 temperature/humidity/dew point combination 1-wire sensors can be split between both RJ11 connectors. Each temperature/humidity/dew point sensor is equivalent to 3 single reading sensors
  - Up to 12 digital input expanders can be split between both RJ11 connectors to allow a maximum of 24 additional digital inputs. Each digital input expander is equivalent to 2 single reading sensors
  - Maximum cable length supported on each connector is up to 600ft (183 m) depending on the configuration and number of connected sensors.
    - This maximum includes the cable length of each sensor.
  - RJ11 splitters or t-tap boards (RJ11-3JCK) for convenient daisy-chaining are sold separately.

## Dry Contact Closures

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

## 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, SSLv3, AES 256-bit, 3DES, Blowfish, RSA, EDH-RSA, Arcfour
  - SSLv3 has been disabled in the following browser versions and affects HTTPS connection to the E-1W:
    - Microsoft Edge
    - Firefox Version 34 and newer
    - Opera Version 25 and newer
    - Google Chrome Version 40 and newer
    - Internet Explorer and Safari: all versions allow SSLv3, if there are connection issues check if SSLv3 is manually disabled.
- 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-1W 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.
    - Email alerts are not compatible with TLS.

## Dimensions

- WxDxH in: 4x3.65x1.37 (102x93x35 mm).

## Power

- E-1WP:
  - 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%

## 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.