



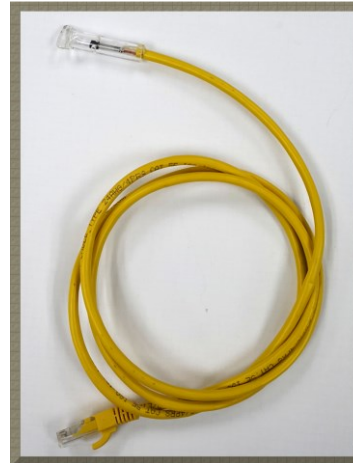
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NPLG1WTMP2M Midspan and N1WTMP2M End Point

Digital Temperature Sensors



Midspan



End Point

Description:

These Digital Temperature Sensors provides 0-bit to 12-bit Celsius (Fahrenheit conversion in controllers) temperature measurements and has an alarm function with non-volatile user-programmable upper and lower trigger points. These Digital Temperature Sensors communicates over an onward linking bus that by definition requires only one data line (and ground) for communication with a central controller. It has an operating temperature range of -55°C to +125°C and is accurate to $\pm 0.5^{\circ}\text{C}$ over the range of -10°C to +85°C. In addition, the Digital Temperature Sensors derive power directly from the controllers data line ("parasite power"), eliminating the need for an external power supply.

The Midspan sensor has the capability of onward linking to multiple temperature sensors or fluid detection sensors.

Features:

NPLG1WTMP2M & N1WTMP2M Digital Temperature Sensor

- Unique onward linking Interface for power and communication
- Each device has a unique 64-Bit serial code stored in an on-board ROM.
- Multi-drop capability simplifies distributed temperature sensing applications.
- Requires no external components.
- Measures temperatures from -55°C to +125°C (-67°F to +257°F).
- ±0.5°C Accuracy from -10°C to +85°C.
- Thermometer resolution is 12 bits.
- Converts temperature to 12-Bit digital word in 750ms (Max).
- User definable non-volatile (NV) alarm settings.
- Alarm search command identifies and addresses devices whose temperature is outside programmed limits (TAC).
- Applications includes Thermostatic Controls, Industrial Systems, Consumer Products, Thermometers, or any Thermally Sensitive System.

Ordering Codes:

N1WTMP2M	1 - Wire Temperature Sensor on 2meter RJ45 terminated cable (End point sensor)
NPLG1WTMP2M	1 - Wire Temperature Sensor on 2 meter RJ45 to Pluggable Extension Box for 1 - Wire bus Extension (Midspan Sensor)