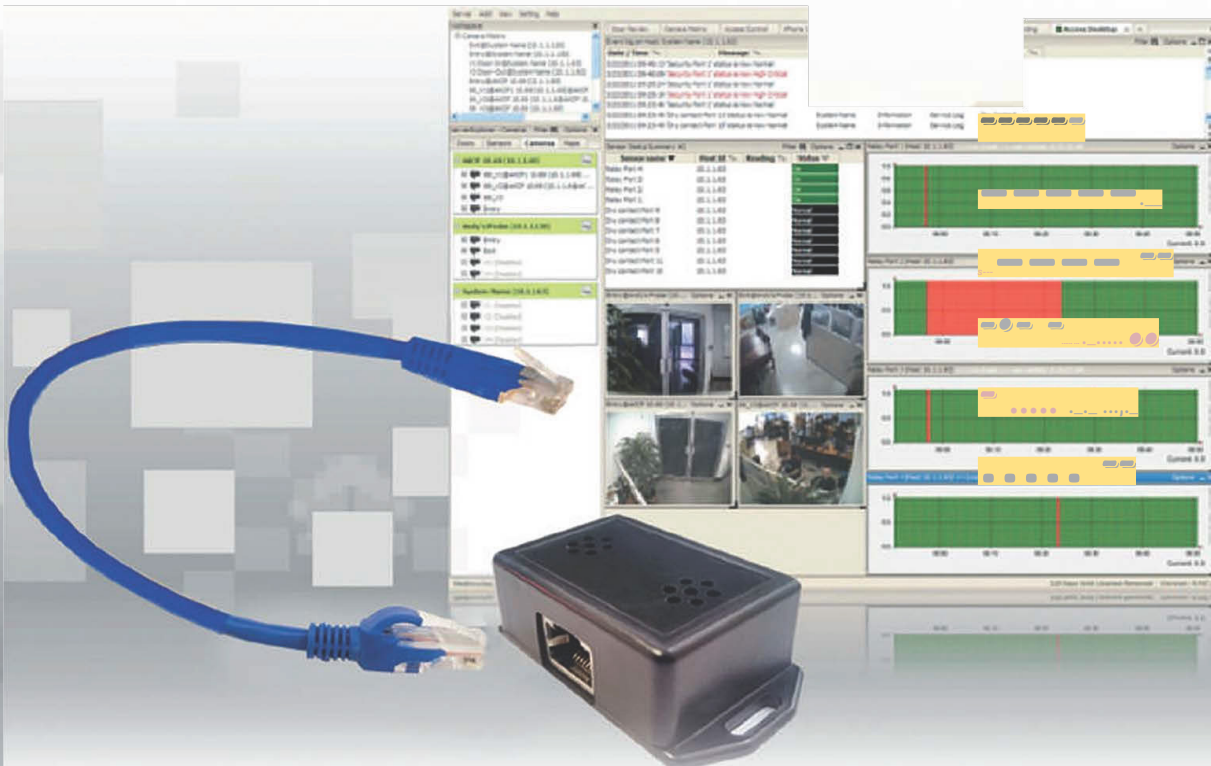


TEMPERATURE & HUMIDITY SENSOR -DC-SENS-TH01A



PRODUCT DESCRIPTION

Dual Temperature & Humidity Sensors have both temperature and humidity measuring capabilities in a single sensor. This extends the capability of the main monitoring unit to measure up to 8 temperature and 8 humidity sensing parameters, just by connecting 8 dual sensor. Good quality CAT 5 cable assures a correct reading up to 30 meters. These dual sensors can be extended beyond their standard length.

OPERATION

When the dual sensor is plugged into the RJ-45 port, the monitoring unit will auto detect the sensor, and it will display Temperature & Humidity for each RJ-45 port . A built-in graph option is included on all main units for graphing temperature and humidity variations over a period of time. When the dual sensor is plugged into the RJ-45 port, the monitoring unit will auto detect the sensor, and it will display Temperature & Humidity for each RJ-45 port. A built-in graph option is included on all main units for graphing temperature and humidity variations over a period of time.

Each Temperature\ Humidity Sensor has its own SNMP O1D so that the data can be collected over network and graphed using 3rd party software. The Temperature\ Humidity Sensor can be read using included SNMP utilities to allow graphing and data logging at 0.2 °C resolution.

MAIN FEATURES

- Extendable to a desired length using typical CATS cable
- RJ-45 connection for easy and simple installation
- Full autosense including disconnect alarm

CALIBRATION & ACCURACY INFORMATION

In general, dual sensors have quite a high accuracy and do not need much calibration. However, you may find that there is a deviation of possibly ± 1 °C for temperature and $\pm 2\%/\pm 3\%$ for humidity on the expansion unit.

In this case, you can offset the deviation through the system's web interface using the "Reading Offset" feature to adjust the reading by your offset amount.

TECHNICAL SPECIFICATIONS

TEMPERATURE

Never needs Calibration.

Measurement range Celsius: -40°C to $+75^{\circ}\text{C}$

Measurement resolution Celsius: 1°C for the expansion units and 0.1°C for the main monitoring units.

Measurement accuracy Celsius: Maximum ± 2.3 at -40°C , minimum ± 0.4 at $+25^{\circ}\text{C}$ and ± 1.7 at $+75^{\circ}\text{C}$

Measurement range Fahrenheit: -40°F to $+167^{\circ}\text{F}$

Measurement resolution Fahrenheit: 1°F for the sensor Probe and 0.1°C for the security Probe units.

Measurement accuracy Fahrenheit: Maximum ± 4.1 at -40°F , minimum ± 0.9 at $+25^{\circ}\text{C}$ and ± 4 at $+167^{\circ}\text{F}$

Communications Cable: RJ45 jack to temperature sensor using UTP Cat 5 wire

Sensor Type: semiconductor microprocessor controlled

Power Source: powered by the sensor port on monitoring unit. No additional power needed.

Power Consumption: Typical 10.70 mWatt, 2.14mA

Monitoring unit autodetects the presence of the temperature sensor

Measurement Rate: one reading every second

You can connect up to 8 on the main unit and 8 more on each expansion module.

HUMIDITY

Measurement range: 0 to 100% Relative humidity

Resolution: 1% for the expansion and 0.1% for the main units.

Accuracy : 25 C $\pm 3\%$

Communications Cable: UTP Cat 5 cable

Powered by the sensor port on monitoring unit. No additional power needed

Power Consumption: Typical 7.25 mWatt, 1.45mA

Sensor element wettable without damage

SNMP OIDs

OID temperature ems Temp Degree = 1.3.6.1.4.1.3854.1.2.2.1.16.1.3.X

OID temperature emsTemp Status = 1.3.6.1.4.1.3854.1.2.2.1.16.1.4.X

OID humidity ems Humidity Percent = 1.3.6.1.4.1.3854.1.2.2.1.17.1.3.X

OID humidity ems Humidity Status = 1.3.6.1.4.1.3854.1.2.2.1.17.1.4.X