

Dual Temp and Humidity Sensors (THS00 / THS01)

Accurate and responsive measurement of temperature and humidity. Available in fixed length or extendable version, the sensor is housed in a metal tube that is thermally conductive and perforated to still provide accurate readings.

THS00

The THS00 is supplied with a free 5ft cable, it can be extended using standard CAT5 up to 100 meters (330ft) from the AKCP base unit. The sensor can be mounted with screws, adhesive or with optional DIN rail clips



THS01

A short 1ft fixed cable with a dual temperature and humidity sensor on the end.



Dual Temp and Humidity Sensors (THSxx-NIST2 / NIST3)

If you're spending money for monitoring, wouldn't you want to know the sensors are calibrated?

2 NIST certified, calibrated temperature sensors are compared once a second for accuracy. (NIST2)

The NIST2 sensors feature a built in calibration check. Each unit has 2x NIST calibrated and certified temperature sensors. The primary sensor value is checked by the secondary sensor, and if we detect a range of greater than the stated accuracy we will alert that the sensor is out of calibration.

This makes these sensors ideal for situations where a high degree of accuracy is required and assurance of the calibration state

Calibration Check with Fail-over

3x NIST certified, calibrated temperature sensors are compared for accuracy, with a backup pair (NIST3).

The NIST3 sensors feature a built in calibration check. Each unit has three pairs of NIST calibrated and certified temperature sensors. The primary sensor value is checked by the secondary sensor, and if we detect a range of greater than the stated accuracy we will alert that the sensor is out of calibration. The sensor will then automatically fail-over to the second pair and continue monitoring with a seamless graph of data.

Suitable for situations where a high accuracy, calibrated sensors are needed, with backup for critical monitoring applications.

THS00 / THS01 / NIST2 / NIST3 - Technical Specifications

Temperature Measurement Range	-55°C to +75°C -67°F to +167°F
Measurement Resolution	sensorProbe+ series 0.1°C increments 0.2°F increments securityProbe series 0.5°C increments 0.9°F increments sensorProbe series 1°C increments 1°F increments
Measurement Accuracy	sensorProbe+ series and securityProbe series ±0.5°C accuracy from -10°C to +75°C ±0.9°F accuracy from +14°F to +167°F sensorProbe series ±1°C accuracy from -10°C to +75°C ±1°F accuracy from +14°F to +167°F
Humidity Measurement range	Humidity 0 to 100% Relative humidity
Resolution	1%RH increments, 0.01%RH sensor reading
Accuracy at	At 25°C Min : ±2%RH Max : ±5% RH
Interface	
Communications cable	RJ-45 jack to sensor using UTP CAT5e/6 cable
Power source	Powered by the base units. No additional power needed
Power Consumption	Typical 17.25mWatt, 1.45mA
Maximum Cable	THS00 - 330 feet (100 meters) with approved low capacitance shielded UTP cable THSxx - 100 feet (30 meters)
Sensor type	Semiconductor, microprocessor controlled
Dimensions	56 x 55 x 33.3 mm
Mounting	DIN rail mounting Screw mounting
Sensor count	2
Sensor count (NIST2/NIST4)	3
Important Note	The fixed one foot type or THS01 are not designed to be extended. If you need to extend these sensors then you need to use the THS00 (remote type). We also do not recommend you trying to connect any of our AKCP sensors including the temperature and dual temp humidity sensors though patch panels or using the RJ-45 couplers to extend them. Please see the temperature sensors product manual or FAQ in our knowledge base for more details regarding this.
Compatability	THSxx-NIST2 and THSxx-NIST3 compatible with sensorProbe+ series only

THS00 / THS01 / NIST2 / NIST3 - Technical Drawing

