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 300 meters (1,000ft) 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. Custom lengths can be ordered to suit your needs. Product code for custom lengths is THSxx where xx is replaced by the cable length in feet.*

*Water resistant version can be ordered on request, product code is THSWxx, where xx is the length of fixed cable in feet.

Dual Temp and Humidity Sensors (THSxx-NIST2 / NIST4)

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

2 NIST certified, calibrated temperature sensors are compared once a second for accuracy, with a second backup pair (NIST4).

The NIST4 sensors feature a built in calibration check. Each unit has two 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.

NIST
National Institute of Standards and Technology
U.S. Department of Commerce

Note: NIST2/4 sensors are compatible with sensorProbe+ series of base units only

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 0.5ºC increments 0.9ºF increments sensorProbe series 1ºC increments 1ºF 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	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 Length	THS00 - SPX+ 1000 feet (300 meters) with approved low capacitance shielded UTP cable THS00 - SP2+ / SP1+ 600 feet (180 meters) with approved low capacitance shielded UTP cable THS01 - 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-NIST4 compatible with sensorProbe+ series only

55

75

55

64.5

42

Dual Temperature & Humidity Sensor

AKCP
Power.Sensor.Security

27

To Sensor Port

300

Ø9.94

Ø13.46