

Combined Temperature & Humidity in a single sensor

By using the dual Temperature & Humidity sensor you are able to extend the capabilities of your AKCP sensor monitoring base unit by combining two sensors on a single port.

Auto Sense

When the dual sensor is plugged into the RJ-45 port of the AKCP base unit, it will be automatically detected and configured to display the correct values.

SNMP and Data Logging

Each Temperature and Humidity sensor has it's own SNMP OID so that data can be collected over a network. External applications like MRTG can be used to draw graphs, and SNMP utilities can log data at 0.2°C resolution. A built in graphing option is included on all base units for graphing temperature and humidity variations over a period of time.

Calibration

AKCP's Dual Temperature & Humidity sensor is factory calibrated and arrive ready to use. However, you may find that there is a deviation of possibly +/-1°C for temperature and +/- 2-3% for humidity. In this case you can off-set the deviation through the base units web itnerface using the "Reading Offset" feature. A calibration certificate can be provided upon request, please contact support@akcp.com.

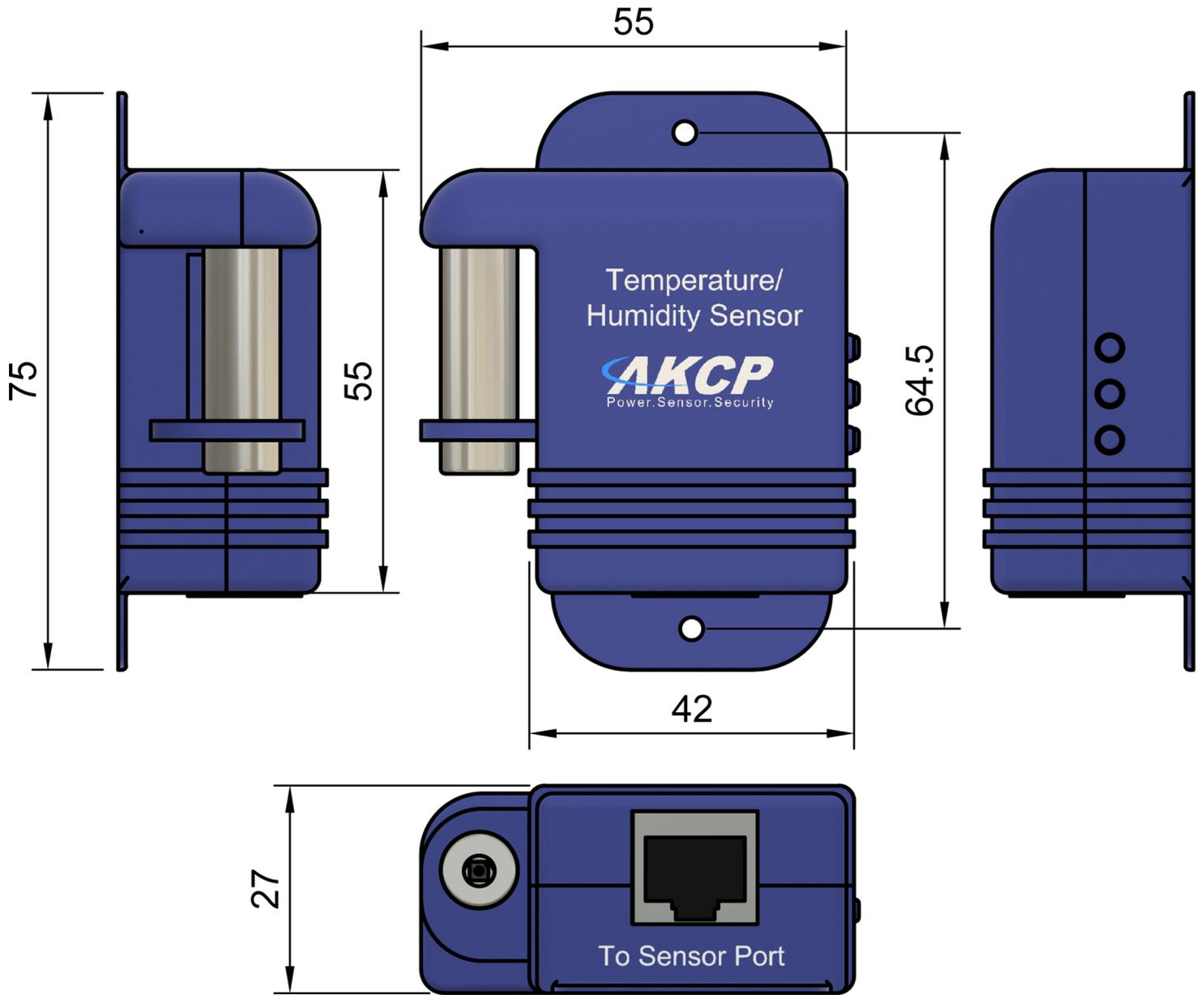


Conductive metal tube protects the sensor. Humidity sensor is exposed to air for accurate readings.

Connect the sensor using CAT5 cable to your AKCP base unit. Use of good quality CAT5 will guarantee accurate readings with cable lengths up to 1,000 feet. Every THS00 ships with a free 5ft CAT5 cable.

Technical Drawing

Dimensions in mm



Technical Specifications

Temperature	
Never needs Calibration	
Measurement range Celsius	-40°C to +75°C
Measurement resolution Celsius	1°C for the sensorProbe and 0.1°C for the securityProbe units.
Measurement accuracy Celsius	Maximum ± 2.3 at -40oC, minimum ± 0.4 at +25oC and ± 1.7 at +75oC
Measurement range Fahrenheit	-40°F to +167°F
Measurement resolution Fahrenheit	1°F for the sensorProbe and 0.1°C for the securityProbe units.
Measurement accuracy Fahrenheit	Maximum ± 4.1 at -40oF, minimum ± 0.9 at +25oC and ± 4 at +167oF
Communications Cable	RJ45 jack to temperature sensor using UTP Cat 5 wire
Sensor Type	semiconductor microprocessor controlled
Power Source	powered by the sensorProbe. No additional power needed.
Power Consumption	Typical 10.70 mWatt, 2.14mA sensorProbe autodetects the presence of the temperature sensor
Measurement Rate	one reading every second Up to 2 temperature sensors per sensorProbe2, 8 per sensorProbe8. You can connect up to 8 on the securityProbe main unit and 8 more on each E-sensor8 expansion module.
OID temperature sensorProbeTempDegree	1.3.6.1.4.1.3854.1.2.2.1.16.1.3.X
OID temperature sensorProbeTempStatus	1.3.6.1.4.1.3854.1.2.2.1.16.1.4.X
OID humidity sensorProbeHumidityPercent	1.3.6.1.4.1.3854.1.2.2.1.17.1.3.X
OID humidity sensorProbeHumidityStatu	1.3.6.1.4.1.3854.1.2.2.1.17.1.4.X
Humidity	
Measurement range	0 to 100% Relative humidity
Resolution	1% for the sensorProbes and 0.1% for the securityProbe units.
Accuracy	25°C $\pm 3\%$
Communications Cable	UTP Cat 5 cable
Power Source	powered by the sensorProbe. No additional power needed.
Power Consumption	Typical 7.25 mWatt, 1.45mA

About AKCP

AKCP established in the USA in 1981, created the market for networked temperature, environmental and power monitoring solutions. Today with over 100 employees and 130,000 installations, AKCP is the world's oldest and largest manufacturer of SNMP enabled networked sensors for the data center.