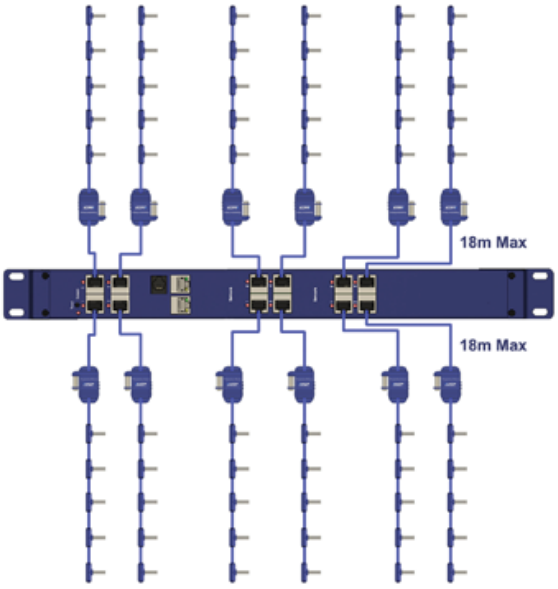
Thermal Map Sensor (THMS-V2 / CTHMS-V2)

Pre-wired for easy installation on your cabinet.Placed at the top, middle and bottom - front and rear of the cabinet. This configuration of sensors gives monitoring of the air intake and exhaust temperatures of your cabinet, and thetemperature differential from the front to the rear.

Monitor temperature differentials in your cabinet

An interface box allows you to plugin a single string (THMS) or two strings (CTHMS). When a single string is used only the front or rear, top middle and bottom temperature values are monitored. When two strings are used bothfront and rear, top middle and bottom are monitored and T values are calculated.

Thermal Map sensors are compatible with all sensorProbe+ base units. Sensors are provided with double sided VHB tape for mounting. Optional magnetic re-positionable mounting kit is available.

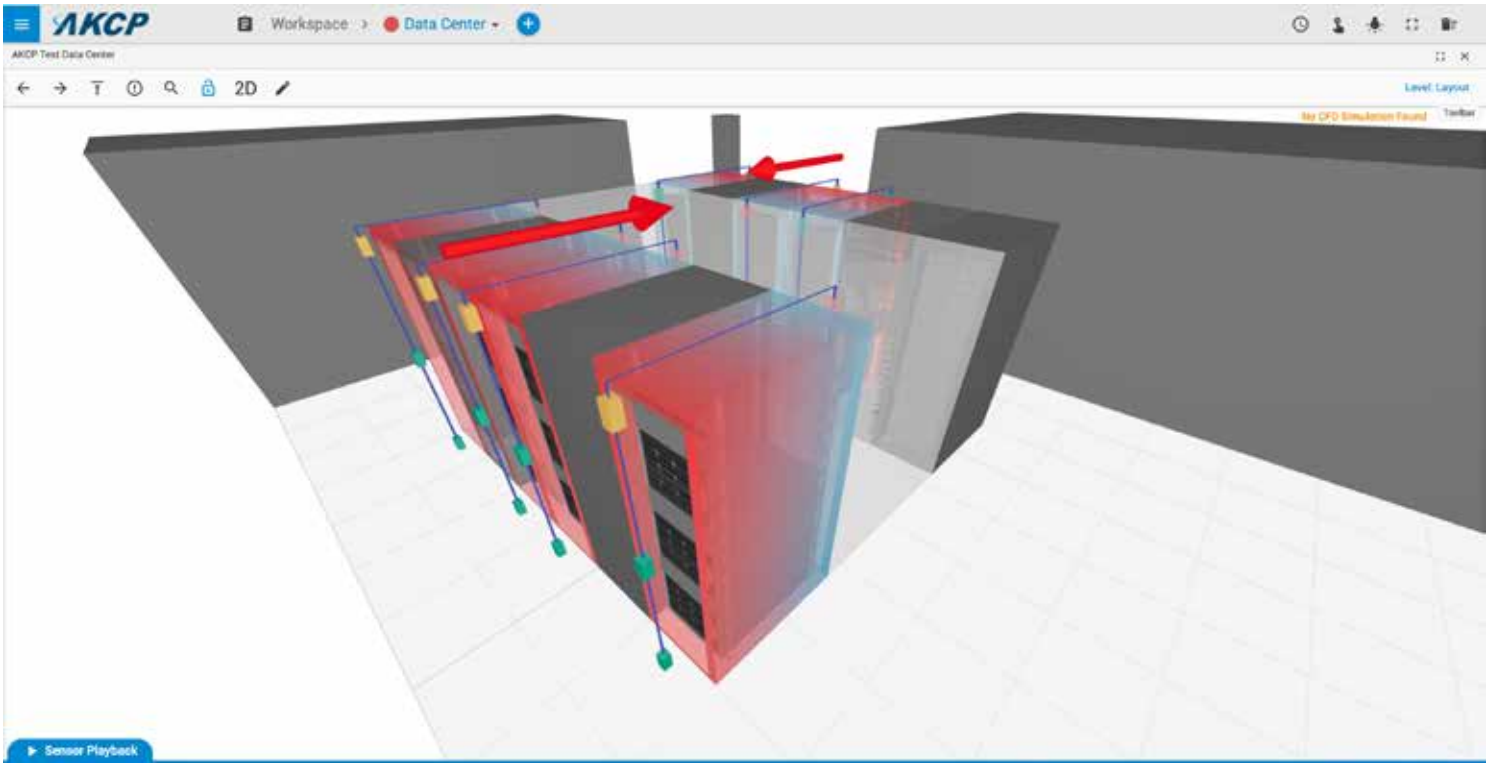


Thermal map sensors connect to any AKCP sensorProbe+ base units. Extendable up to a maximum of 18 meters cable length, you can monitor multiple cabinets from a single IP address. The maximum number of thermal maps on a single SPX+ is 16.

THMS-V2 / CTHMS-V2

Thermal maps can be added to rack map views in AKCPro Server.Animated arrows show the temperature differential from the front to rear of the cabinet as well as the individual sensor values at the front, rear, top, middle and bottom of the cabinet. 3D heatmap visualization of your data center allows you to quickly identify hotspots or areas being over
cooled.

Cabinet rack map displaying thermal maps in AKCPro Server

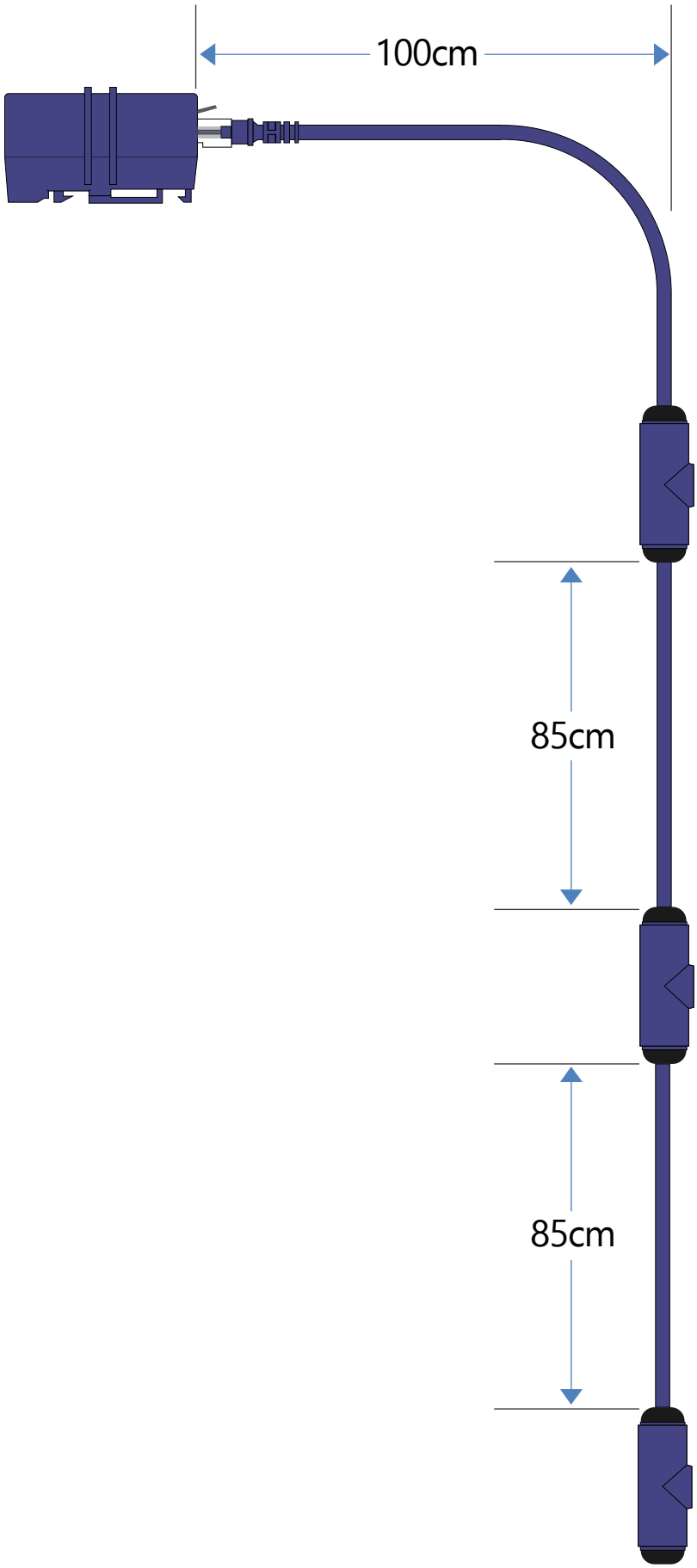


3D Heatmaps displayed in AKCPro Server

THMS-V2 / CTHMS-V2 - Technical Specifications

Dual Temperature	
Measurement Range	-40°C to +75°C -40°F to +167°F
Measurement Resolution	0.1°C increments 0.2°F increments
Measurement Accuracy	Maximum ±0.3 at -40ºC, minimum ±0.3 at +25ºC and ±0.3 at +75ºC Maximum ±0.6 at -40ºF, minimum ±0.6 at +25ºC and ±0.6 at +167ºF
Dual Humidity	
Measurement range	0 to 100% Relative humidity
Resolution	1%RH increments, 0.01%RH sensor reading
Accuracy at	25°C ±2%RH
Single Temperature	
Measurement Range	-40°C to +75°C -40°F to +167°F
Measurement Resolution	0.1ºC increments 0.2ºF increments
Measurement Accuracy	±0.5°C accuracy from -10°C to +75°C ±0.9°F accuracy from +14°F to +167°F
Interface	
Communications cable	RJ-45 jack to sensor using UTP CAT5e/6 cable
Power source	Powered by the sensorProbe+ familiy units. No additional power needed
Power Consumption	Typical 75 mWatt, 15 mA
Maximum Cable Length	Sensor can be extended from the RJ-45 Intelligent Sensor ports on the base units up to 60 feet, or 18 meters using standard CAT5/6 LAN cable
	sensorProbe+ units auto detects the presence of the Cabinet Thermal Map Sensor
Dimension	75 x 55 x 27 mm
Mounting	VHB Tape, Magnetic (optional)
Components	Manufactured using highly integrated, low power surface mount technology to ensure long term reliability.
Operating Environment	Temperature : Min. -35° C – Max.80° C Humidity: Min. 20% – Max. 80% (Non-Condensing)
Sensor count	THMS-V2 : 4 CTHMS-V2 : 11

THMS-V2 - Technical Drawing



CTHMS-V2 - Technical Drawing

Cabinet Thermal Map Sensor string