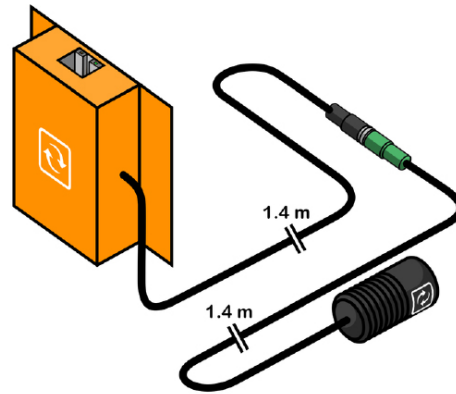# ISO17025 Calibrated Cylindrical Temperature & Humidity Sensor (C-ENV-THUM)

The C-ENV-THUM is a cylindrical version of plug & play sensor designed for monitoring temperature & humidity inside racks and hot/cold aisles in data center white spaces by hanging from ceiling.

Certification and Calibration:

Temperature	ISO 17025
Humidity	NIST

Sensor Metrics:

Temperature resolution	0.02°C (0.36°F)
Temperature accuracy	±0.5°C (±0.9°F) from 0°C to 50°C (32°F to 122°F)
Temperature reading	-55°C to +125°C (-67°F to +257°F)
Reading unit	in Celsius or Fahrenheit
Relative humidity range	0 to 100 %RH
Relative humidity resolution or precision	0.01%RH
Relative humidity accuracy	±2%RH between 0%RH to 100%RH

Technical Specifications:

Powered by and communicates with	Base Unit (BASE-XX) (required)
Connectivity	RJ45 cable transmitting data & power from Base Unit to Sensor
Cable specification	RJ45 CAT 6/7 recommended Up to 100m (330ft) subject to cable quality & interference
Sensor power usage	120 mW

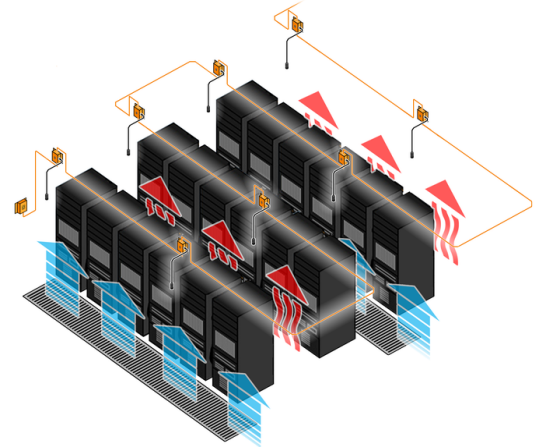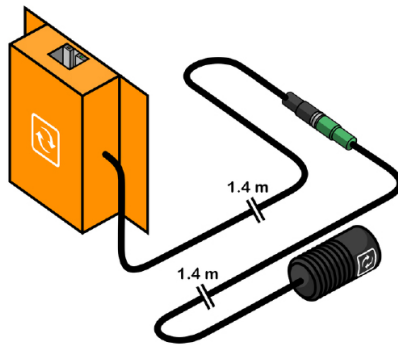## Environmental Specifications:

Operating temperature range	0°C to +75°C (32°F to +167°F)
Humidity (operating and storage)	< 90%RH (non-condensating)

Physical Specifications:

Sensor enclosure	Plastic material enclosure Optionally available in aluminum enclosure
Mounting option	Secure mounting with bolt and nut mechanism Can be mounted using two M24 nut
Dimensions	L: 52mm (2.05") W: 24mm (0.94") Ø: 24mm (0.94")
Weight (including the cable)	82g (0.18lbs)
Maximum cable length	1.4m (4.6ft)

The visual appearance and dimensions presented on this datasheet are for illustrative purposes only and are subject to change without prior notice. Actual product appearance and dimensions may vary due to continuous product improvement and manufacturing

ISO17025 Calibrated Cylindrical Daisy Chained Temperature & Humidity Sensor (C-DAISY-THUM)

Plug & play sensor designed for monitoring temperature & humidity inside racks and hot/cold aisles in data center white spaces by hanging from ceiling. Using a 1.4m cable, the sensor connects to a T-daisy chain connector (included).

Certification and Calibration:

Temperature	ISO 17025
Humidity	NIST

Sensor Metrics:

Temperature resolution	0.02°C (0.36°F)
Temperature accuracy	±0.5°C (±0.9°F) from 0°C to 50°C (32°F to 122°F)
Temperature reading	-55°C to +125°C (-67°F to +257°F)
Reading unit	in Celsius or Fahrenheit
Relative humidity range	0 to 100 %RH
Relative humidity resolution or precision	0.01%RH
Relative humidity accuracy	±2%RH between 0%RH to 100%RH

Technical Specifications:

Powered by and communicates with	Base Unit (BASE-XX) (required) DAISY-STARTER (required) serves as the controller for the daisy chained sensors
Connectivity	RJ45 cable transmitting data & power from Base Unit to Sensor
Cable specification	RJ45 CAT 6/7 recommended Up to 100m (330ft) subject to cable quality & interference
Sensor power usage	120 mW Minimum power supply to sensor 9V (note that when voltage drops below 9V then a DAISY-BOOSTER is required)
Number of daisy chain sensors	Up to 40 sensors supported with BASE-IT-5 (requires FW v9.3 or higher) Up to 80 sensors supported with BASE-IND-6

Environmental Specifications:

Operating temperature range	0°C to +75°C (32°F to +167°F)
Humidity (operating and storage)	< 90%RH (non-condensating)

Physical Specifications:

Sensor enclosure	Plastic material enclosure Optionally available in aluminum enclosure
Mounting option	Secure mounting with bolt and nut mechanism Can be mounted using two M24 nut
Dimensions	L: 52mm (2.05") W: 24mm (0.94") Ø: 24mm (0.94") with 1.4m cable that connects to a T-daisy chain connector (Daisy version)
Weight (including the cable)	82g (0.18lbs)
Maximum cable length	1.4m (4.6ft)