Wireless Tunnel™ Cabinet Thermal Maps (WTS-CTHM)

Thermal Maps for finding hotspots

The wireless cabinet thermal maps come in a string of 3x dual temperature and humidity sensors, or 6x dual temperature and humidity sensors. Used for monitoring the temperature and humidity values at the top, middle and bottom, front and rear of the cabinet. The 6 string can give you the inlet and exhaust air temperatures as well as front to rear temperature differentials.

Useful Data Center Analysis Tool

Due to it being wireless and battery powered the sensor can easily be moved around from cabinet to cabinet allowing you to profile each cabinets thermal properties and identify hotspots, before moving the sensor onto another cabinet.

Wireless Tunnel™ Antenna

IP66 Enclosure

Thermal Map String

WTS-CTHM - Technical Specification

Status Indication	LED indication for - Mode - Status - RSSI
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)
LoRa (R) Radio Regional plans	- EU868 : 863~868Mhz, Max TX Power +14dBm, Duty Cycle 1% - US915: 903~915Mhz, Max TX Power +17dBm - AS923 : 920~925Mhz, Max TX Power +14dBm, Duty Cycle 1% - KR920 (Korea) : 922~923Mhz, Max TX Power +14dBm, Duty Cycle 1% - IL917 (Israel) : 915~917Mhz , Max TX Power +14dBm, Duty Cycle 1%
Certification	FCC Part15C, CE EN300220-2
Interface	Micro-USB port for powering, adding and upgrading to the Gateway base unit
Dimension	76x77x120mm
Mounting	Wall hanging, DIN rail, Pipe Clamp
Power source	4xAA batteries or via micro-USB port
Power Consumption	Average 12 mWatt, 11uA in Idle, Up to 10 years of battery life
Environment monitoring	
Temperature	6x Temperature sensor values (for WTS-CTHM)
Measurement Range	-40°C to +75°C -40°F to +167°F
Measurement Resolution	0.1°C increments 0.2°F increments
Measurement Accuracy	Typical : * ±0.3 from -40ºC to +75ºC * ±0.4 from -40ºF to +167ºF Maximum : * ±0.4 at -40ºC and ±0.4 at +75ºC * ±0.7 at -40ºF and ±0.7 at +167ºF
Humidity	2x Humidity sensor values (for WTS-CTHM)
Measurement range	0 to 100% Relative humidity
Resolution	1%RH increments, 0.01%RH sensor reading
Accuracy at	25°C ±2%RH
Gateway sensor count	14 (3 + 11)

WTS-CTHM - Technical Drawing