

Wireless Tunnel[™] Cabinet Analysis Sensor (WTS-CAS)

Differential Pressure, Thermal Maps and Dry Contacts

The Cabinet Analysis Sensor with Wireless Tunnel[™] radio pairs with the WTG to give reports on a per cabinet basis. Use WTS-CAS to identify hotspots and problem areas in your data center. Powered by 4x rechargeable AA batteries or USB power. Mounting of the sensor is by magnetic attachment or DIN rail.

The WTS-CAS is one of the sensors included in the Data Center Analysis Toolkit that can be used to diagnose problems and for data center audits.

A: External Di-Pole Antenna B: USB Power / Recharge C : Differential Pressure Ports D/E : RJ45 connection for thermal map string F/G : Dry Contact I/O / AC Voltage Detection H: Mode Button



Differential Pressure and Thermal Maps

Differential Pressure (DP)

The DP sensor check that you have a positive airflow through the cabinet. As air flows from high to low pressure it is imperative to check the pressure differential. Good airflow, equates to efficient cooling. The greater the pressure differential, the faster the airflow and the higher the cooling capacity. A low differential pressure can lead to CPU fans working harder and reducing their lifespan.

Thermal Map (TM)

The thermal map sensor consists of 6 sensors in a string (2x strings of 3). Sensors are positioned at the top, middle and bottom of the rack, front and rear. Monitoring the inlet and outlet air temperatures, and the temperature differential from front to rear (Delta T). Combined with the DP sensor you can identify if hotspots are due to poor airflow.

Dry Contacts

Use the dry contacts to monitor the front and rear door status, or an alarm output other equipment (eg. UPS).

Data Center Analysis and Intelligent Containment

Rack map views will display the thermal map data, front to rear temperature differentials and pressure gradient. Move the sensor from cabinet to cabinet easily with the magnetic mounts, and create a complete analysis report of your data center, or install for 24/7 monitoring and utilize intelligent aisle containment maps in AKCPro Server.





PRODUCT CATALOG

Wireless Tunnel[™] Cabinet Analysis Sensor

WTS-CAS- Technical Drawing



www.akcp.com



WTS-CAS- Technical Specification

ure long
S