

Cabinet Analysis Sensor (CAS)



The cabinet analysis sensor combines differential pressure and cabinet thermal maps into one smart sensor. Sensors include :-

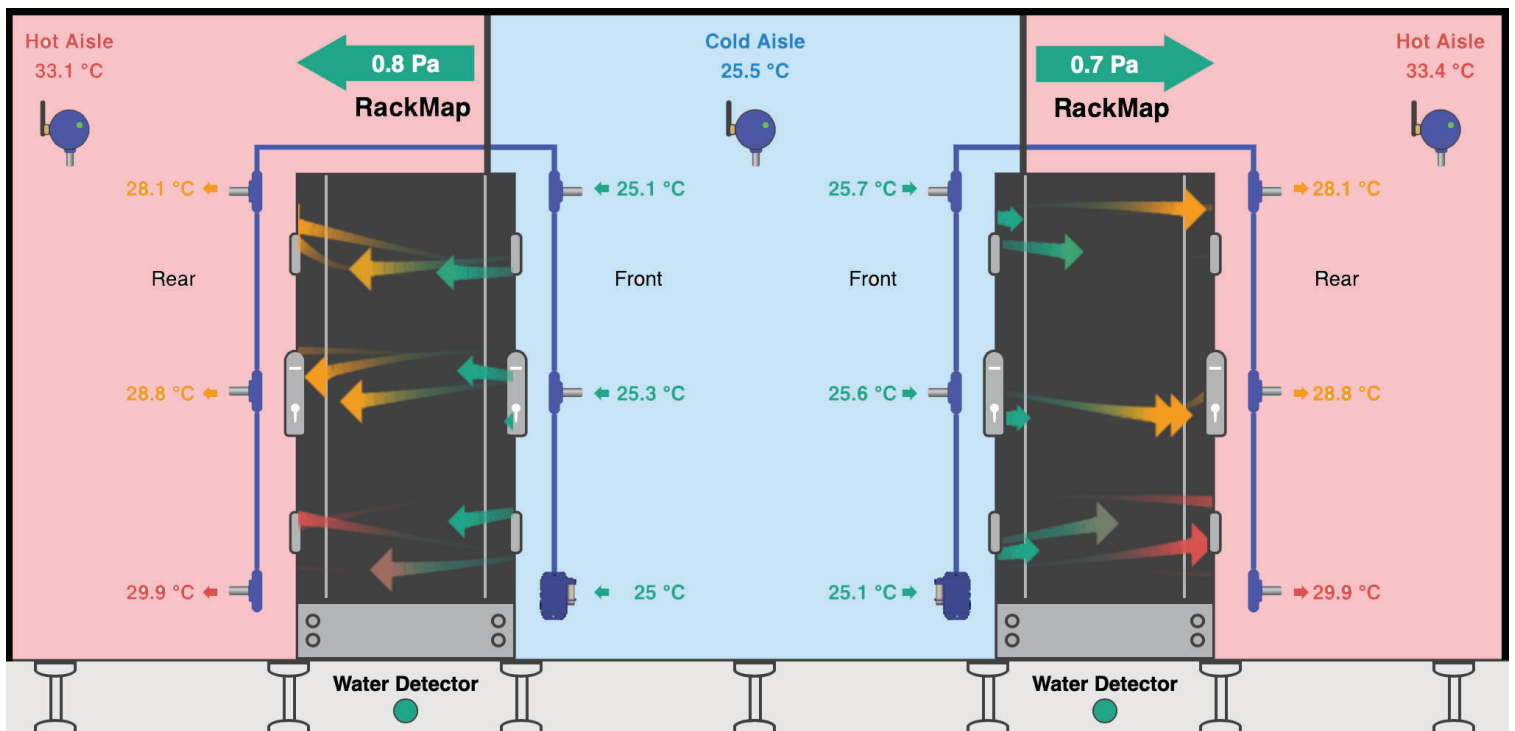
String of 6x Temp sensors and 2x Humidity for cabinet front and rear temperatures with ΔT calculation of front and rear temperature differentials.

Differential pressure sensor, check for proper pressure differential between front and rear. Ideal for hot/cold aisle containment to ensure proper airflow.

AKCPro Server Rack Map View
Use the CAS with dedicated rack map views on AKCPro Server. A visual representation of your cabinet, with airflow, front and rear temperatures, temperature differentials and differential pressure. Add swing handle locks, LCD display and sensor status light for a complete Rack+ solution.



Note: Wireless version (WT-CAS) available for use with AKCP Wireless Gateway



CAS - Technical Specifications



Environment monitoring	
Temperature	6x Temperature sensor values 3x Differential Temperature sensor values
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 -40°C, minimum ±0.3 at +25°C and ±0.3 at +75°C Maximum ±0.6 at -40°F, minimum ±0.6 at +25°C and ±0.6 at +167°F
Humidity	2x Humidity sensor values
Measurement range	0 to 100% Relative humidity
Resolution	1%RH increments, 0.01%RH sensor reading
Accuracy at	25°C ±2%RH
Differential Pressure	1x Differential Pressure value
Measurement range	± 125 Pa (±0.5 inH2O / ±1.25 mbar)
Resolution	0.01 Pa increments
Accuracy at	25°C ±0.5%
Interface	
Communications cable	RJ-45 jack to sensor using UTP CAT5e/6 cable
Power source	Powered by the sensorProbe+ family units. No additional power needed
Power Consumption	Typical 250 mWatt, 50 mA
Maximum Cable Length	The CAS 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
Dimension	75 x 55 x 27 mm
Mounting	Desktop, Wallmount, Din rail, Magnetic
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)
Important Note	<ul style="list-style-type: none"> - The Cabinet Thermal Map sensor is only compatible with the sensorProbe+ platform units. - When plugging the first time or after upgrading a sensorProbe+ unit, the sensor firmware might be upgraded by the unit and not be available right away. - On the sensorProbeX+, the sensor firmware can be upgraded only on the main module sensor ports
Sensor count	12

CAS - Technical Drawing

