

# Cabinet Analysis Sensor (CAS)



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

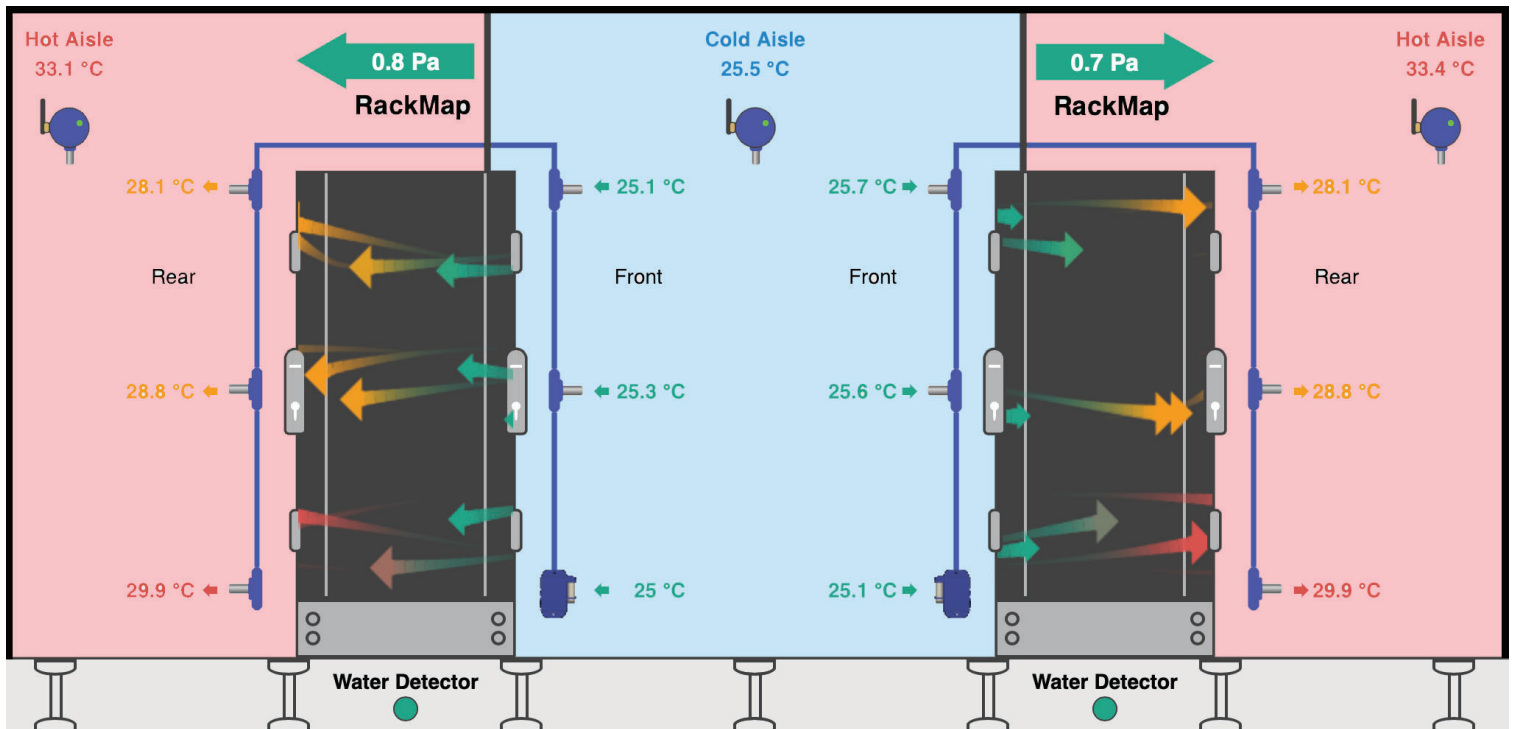
String of 6x Temp sensors and 2x Humidity for cabinet front and rear temperatures with  $\Delta T$  calculation of front and rear temperature differentials.

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



<b>Environment monitoring</b>	
<b>Temperature</b>	6x Temperature sensor values 3x Differential Temperature sensor values
<b>Measurement Range</b>	-40°C to +75°C -40°F to +167°F
<b>Measurement Resolution</b>	0.1°C increments 0.2°F increments
<b>Measurement Accuracy</b>	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
<b>Humidity</b>	2x Humidity sensor values
<b>Measurement range</b>	0 to 100% Relative humidity
<b>Resolution</b>	1%RH increments, 0.01%RH sensor reading
<b>Accuracy at</b>	25°C ±2%RH
<b>Differential Pressure</b>	1x Differential Pressure value
<b>Measurement range</b>	± 125 Pa (±0.5 inH2O / ±1.25 mbar)
<b>Resolution</b>	0.01 Pa increments
<b>Accuracy at</b>	25°C ±0.5%
<b>Interface</b>	
<b>Communications cable</b>	RJ-45 jack to sensor using UTP CAT5e/6 cable
<b>Power source</b>	Powered by the sensorProbe+ family units. No additional power needed
<b>Power Consumption</b>	Typical 250 mWatt, 50 mA
<b>Maximum Cable Length</b>	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
<b>Dimension</b>	75 x 55 x 27 mm
<b>Mounting</b>	Desktop, Wallmount, Din rail, Magnetic
<b>Components</b>	Manufactured using highly integrated, low power surface mount technology to ensure long term reliability.
<b>Operating Environment</b>	Temperature : Min. -35° C – Max.80° C Humidity: Min. 20% – Max. 80% (Non-Condensing)
<b>Important Note</b>	<ul style="list-style-type: none"> <li>- The Cabinet Thermal Map sensor is only compatible with the sensorProbe+ platform units.</li> <li>- 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.</li> <li>- On the sensorProbeX+, the sensor firmware can be upgraded only on the main module sensor ports</li> </ul>
<b>Sensor count</b>	12

**CAS - Technical Drawing**

