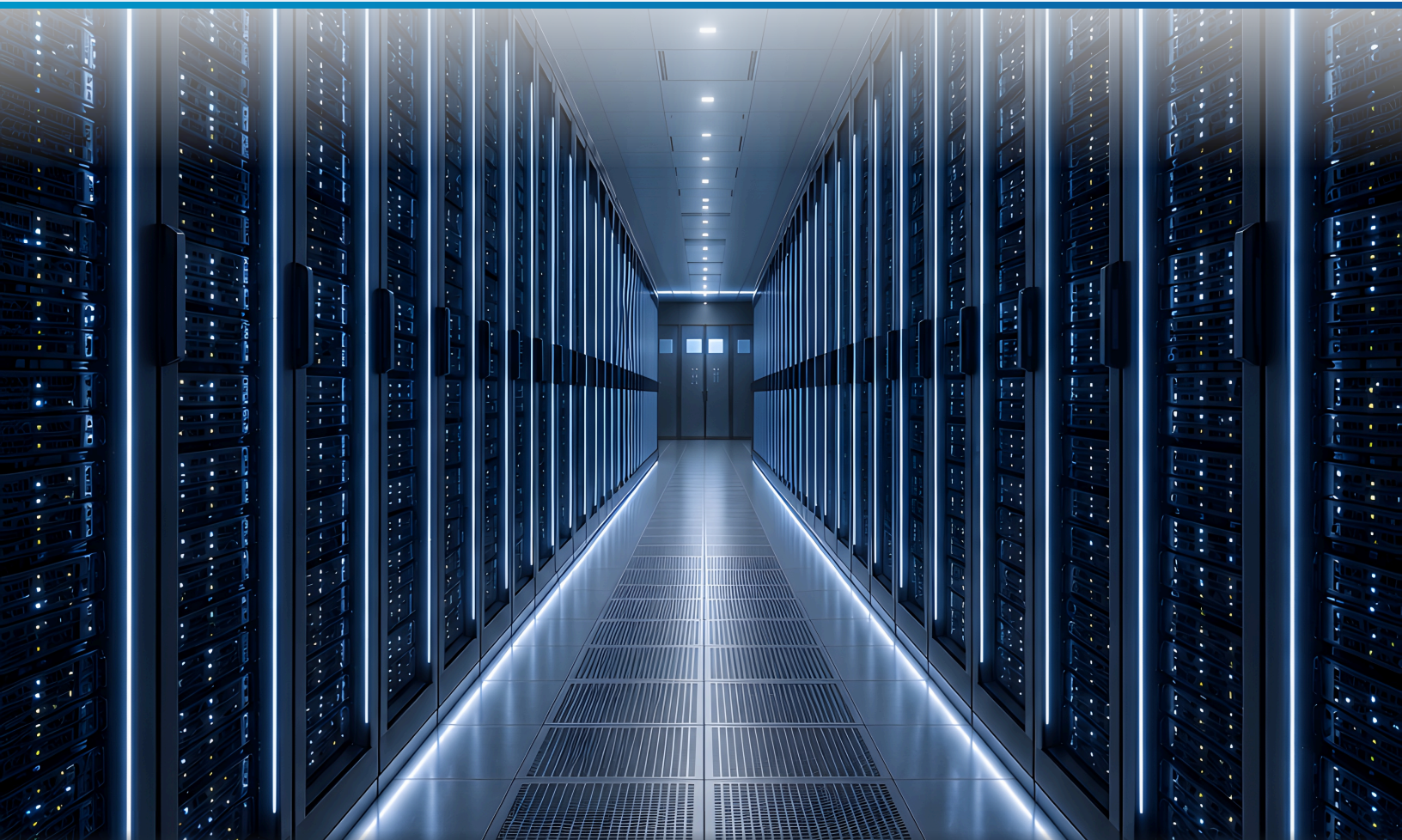


Amphenol Sensors

SENSOR PORTFOLIO

Data Center

Sensors for the AI-era data center.



AIR COOLING

◆ LIQUID COOLING

◆ POWER

◆ SERVER


◆ RACK

◆ GENERATORS

◆ BESS

Across Your Facility

Seven infrastructure zones. Every measurement that matters.




Air Cooling

CRAH/CRAC · supply/return air · cold/hot aisle containment

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Airflow balance, condensation prevention, demand-controlled ventilation, and refrigerant-leak detection — every air-side measurement that matters.

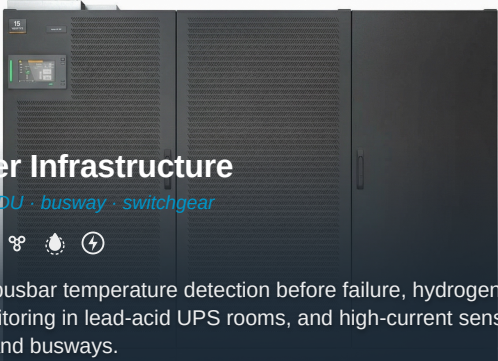


Liquid Cooling

CDUs · coolant loops · immersion · reservoirs

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Coolant pressure under variable IT load, leak detection before propagation, reservoir level for make-up planning, and glycol chemistry in closed loops.



Power Infrastructure

UPS · PDU · busway · switchgear

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Rising busbar temperature detection before failure, hydrogen build-up monitoring in lead-acid UPS rooms, and high-current sensing on PDUs and busways.



Server Board-Level

Server PCBs · CDU control boards · chassis-level integration

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Compact pressure, humidity, and temperature sensing for server chassis and CDU board electronics.



Rack Infrastructure

Rack-mounted environmental and condition monitoring

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Rack-level environmental probes, water-ingress detection at the rack, and predictive vibration monitoring on fans and pumps.



Generators

Backup gensets · fuel tanks · intake/exhaust paths

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Combustion-control temperature on intake and exhaust, fuel-tank level for both day-tank and bulk yard, and water-in-fuel detection.



BESS / Li-ion UPS

Battery energy storage · Li-ion UPS

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Off-gas detection (CO₂, H₂), IR cell-temperature monitoring, and high-current DC sensing for thermal-runaway prevention.

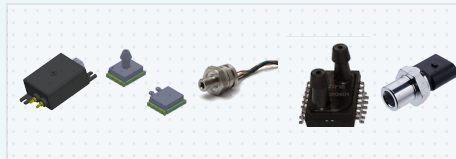
One Portfolio. Every Zone.

From the chiller plant to the chip — Amphenol Sensors covers every measurement that matters in the AI data center, with the specialty sensor brands engineers across the industry already specify.

PRESSURE & AIRFLOW	TEMPERATURE	HUMIDITY		
GAS	LEAK	LEVEL	VIBRATION	CURRENT

Our Sensor Portfolio

Every modality, backed by Amphenol's specialty sensor brands.

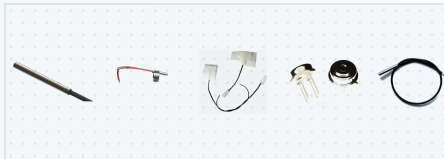


Pressure, ΔP & Airflow

Transmitters · transducers · board-mount · ΔP cells · MEMS air-velocity (coming soon)

Piezoresistive (silicon, stainless-steel isolated) · Leadless dual-die · CoBeam2 · MEMS · MEMS thermal mass flow

0.5" H₂O – 35 bar + air velocity sensing



Temperature

Probes · pipe-clip · ring-terminal · self-adhering · IR

NTC thermistor · RTD · IR thermopile (non-contact)

-50 °C to +1100 °C, board to industrial



Humidity

Modules · SIP packages · transmitters · harsh-environment

Capacitive polymer · Resistive polymer

0–100% RH with dew-point / enthalpy / wet-bulb outputs



Gas Detection

NDIR modules · electrochemical sensors · catalytic bead

NDIR (CO₂, R290 propane, R32 refrigerant) · Electrochemical (H₂)

Refrigerant leaks, battery off-gas, and indoor air quality

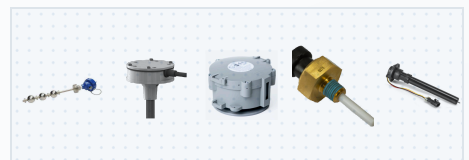


Leak Detection

Rope-leak cables (coming soon) · spot-water detectors

TDR distributed rope-leak · Spot-water · Capacitive

Distributed pipe-run tracing or single-point detection



Level

Float switches · guided-wave radar · ultrasonic · tank monitors

Float · Ultrasonic · Guided-wave radar · Capacitive

Tank, reservoir, and process vessel level

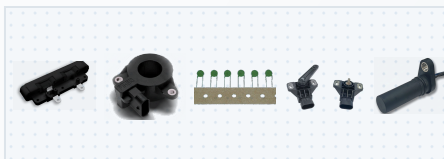


Vibration

Industrial accelerometers · wireless vibration monitors

Piezoelectric · Wireless

Predictive maintenance for mechanical infrastructure



Current, Position & Speed

Hall-effect · current limiters · position · speed

Hall effect · PTC · Inductive

AC/DC current, busbar, position & speed

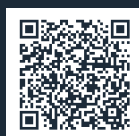


Site & Outdoor Conditions

Multi-parameter outdoor environmental weather station — ultrasonic, no moving parts

Ultrasonic anemometry · Solid-state T+RH · MEMS barometric · Acoustic rain · IPX6 housing

Hyperscale site BMS · Co-location facility teams · Generator OEMs · Cooling-system integrators



EXPLORE THE FULL PORTFOLIO

Every data center sensor, every modality.

amphenolsensors.com/markets/data-center

SCAN



Amphenol Sensors

FROM FACILITY TO BOARD

From facility infrastructure to board-level integration, Amphenol Sensors delivers the measurement coverage the **AI era** demands.

Explore the full data center sensor portfolio.



SCAN TO EXPLORE

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PIHER *sensing
systems*

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 SGX
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 SSI Technologies, LLC

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