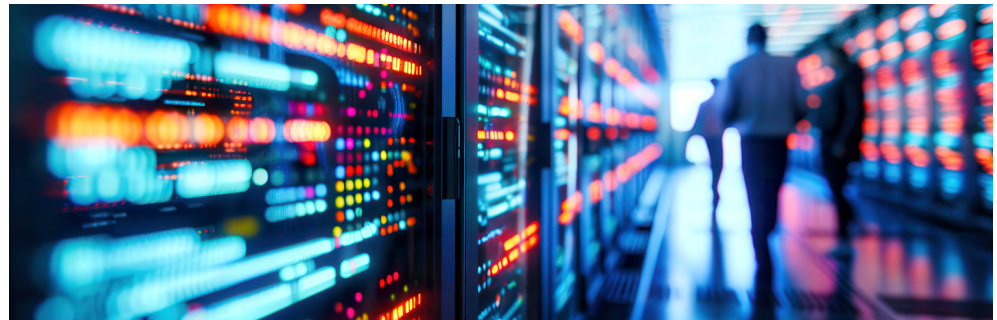


Reliable industrial measurement instrumentation for modern data center liquid cooling demands

Benefits at a glance

- Reliable performance in critical cooling applications
- Instrumentation built for demanding liquid cooling environments and to support data centers of all sizes
- Complete coverage across the cooling loop and utilities
- Improved sustainability and efficiency
- Agility for new builds and expansions
- 1,700,000 devices shipped globally each year



Technology built for reliability, scalability and sustainability in data center environments

As data centers expand in scale and complexity, Endress+Hauser stands out as a reliable partner, delivering advanced measurement instrumentation to support smooth operations. Leveraging decades of expertise, Endress+Hauser helps facilities — from hyperscale campuses to edge sites — meet current performance needs and prepare for future growth. Endress+Hauser's comprehensive portfolio delivers consistent reliability and precision across both traditional and modern liquid-based cooling strategies.

Reliable data is crucial, especially as liquid cooling becomes more prevalent in data centers. Endress+Hauser's robust products are engineered to provide accurate, repeatable measurements for flow, temperature, pressure and fluid quality, enabling operators to maintain uptime and protect critical assets as cooling demands evolve. These instruments integrate seamlessly into new and existing

infrastructures, accommodating liquid cooling processes with minimal disruption. This flexibility allows operators to scale quickly, adopt innovative cooling approaches and streamline commissioning while maintaining clear visibility into system performance.

As sustainability grows in importance, Endress+Hauser supports operators in optimizing energy and water use, improving cooling efficiency and reducing environmental impact. High-precision measurements across the cooling loop empower data centers to minimize waste and enhance operational efficiency without compromising reliability. Through proven technology, industry-leading precision and a commitment to innovation, Endress+Hauser is a strong partner for evolving data center cooling strategies, ensuring facilities are equipped for both today's requirements and tomorrow's challenges.

Endress+Hauser's portfolio in action

Explore our offering to learn more about how our instrumentation supports data center cooling efforts.

Liquid Analysis

Product	Product link	Description
	Multi-channel transmitter CM44	One transmitter for all liquid analysis parameters, applications and sensors ■ Automatic sensor recognition with pre-calibrated Memosens sensors ■ Allows for up to 8 liquid analysis sensors to be installed on one transmitter
	Digital pH sensor Memosens CPS11E	Extended storage of calibration and process data, enabling better trend identification and providing a future-proof basis for predictive maintenance and enhanced IIoT services ■ Low operating costs: lab calibration and quick sensor exchange in the process result in minimized process downtime and longer sensor lifetime ■ Large, dirt-repellent PTFE junction protects from soiling by the medium ■ Integrated monitoring, verification and diagnostics with Heartbeat Technology
	Digital low-level turbidity sensor CUS52D	Highly accurate and reliable monitoring of your water quality — even at the lowest turbidity ■ Smart verification and calibration: Absolutely safe, liquid-free, without formazin

Flow

Product	Product link	Description
	Proline Promag W 300 electromagnetic flowmeter	■ Tracking of water consumption for cooling systems with 0xDN ■ Great for use in retrofit environments ■ Integrated monitoring, verification and diagnostics with Heartbeat Technology
	Proline Promag P 300 electromagnetic flowmeter	■ Efficient, bidirectional real-time monitoring of cooling fluids ■ Integrated monitoring, verification and diagnostics with Heartbeat Technology
	Picomag electromagnetic flowmeter	■ Great for use in tight, restricted or difficult-to-access locations within data center facilities ■ Can be delivered with Bluetooth® deactivated from factory for installations in which non-Bluetooth default is preferred

Pressure

Product	Product link	Description
	Differential pressure Deltabar PMD50	- Robust, cost-effective pressure transmitter for use in data center chiller applications - High precision monitoring of coolant flow and pressure
	Differential pressure Deltabar PMD75B	- Monitors critical cooling system parameters, including liquid flow rates and filter pressure drops - Heartbeat Technology minimizes unscheduled downtime by proactively providing critical insight into the system
	Absolute and gauge pressure Cerabar PMC21	Cost-effective option for monitoring cooling liquids, chilled water and air pressure
	Cerabar PMC71B pressure transmitter	- Smart pressure transmitter that detects process anomalies like changes in the loop characteristics - Heartbeat Technology minimizes unscheduled downtime by proactively providing critical insight into the system

Temperature

Product	Product link	Description
	iTHERM ModuLine TM152 industrial modular thermometer	- Modular design allows for configuration of a variety of process connections, insertion lengths, enclosures and electronics - Optimizes cooling systems and ensures precise temperature monitoring of liquid coolants
	iTEMP TMT72 temperature transmitter	- Integrated Bluetooth interface for wireless display of measured values and configuration - Monitors critical cooling and power systems
	iTHERM SurfaceLine TM611 surface thermometer	- Reliable temperature measurement in areas with tight piping - Great for use in retrofit applications

Ready to get started?

Did you know Endress+Hauser ships 1,700,000 devices annually?

- 250,000 electromagnetic flowmeters
- 350,000 pH sensors
- 500,000 temperature devices
- 600,000 pressure transmitters

Fast access to the instrumentation you need is critical in data center environments. Endress+Hauser supports this need through a strong regional distribution network and streamlined logistics designed to help customers receive products quickly and reliably.



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