

T&H Sensors

Zenvex temperature and humidity sensors offer flexible product configurations to meet diverse application needs, with multiple installation options including standard wall-mount, cabinet-mount, magnetic-mount, and 86-box designs.

The product line supports a wide range of communication protocols, including RS485, Zigbee and LoRa.

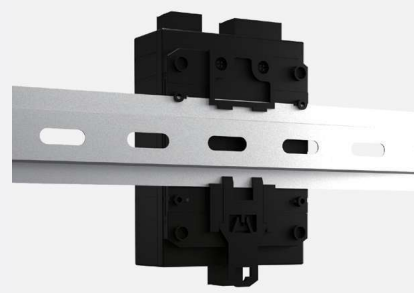
Combining industrial-grade design with high accuracy, high reliability, and low power consumption, these sensors deliver robust performance across various environments.



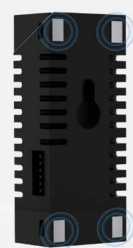
Multiple Installation Methods



86-Box Mounting



DIN Rail Mounting installation



Magnetic Mounting



Wall Mounting

Product Highlights

Device Type	Product Appearance	Functions
86-box Mounting T&H Sensor		· High accuracy in T&H measurement · Dew point calculation · Configurable upper/lower thresholds for T&H alarms · Supports parameter setting via physical buttons · External probe with near-zero response delay · Dual parallel power and communication interfaces for easy daisy-chaining
Three-Channel Temperature Sensor		· Supports three-channel temperature measurement · Address configurable via DIP switch, range 1–63 · Supports firmware upgrade via RS485 serial interface · Communication via Modbus RTU protocol · Baud rate configurable from 1200 to 115200 bps
Cabinet-Mounting T&H Sensor		· Supports magnetic and wall-mount installation for quick and easy deployment · The RJ45 interface integrates RS485 signal and power, enabling daisy-chaining of multiple devices with simplified wiring · Upper and lower alarm thresholds for T&H can be flexibly configured via the host system
DIN Rail T&H Sensor		· Adopts variable power heating technology to adjust internal dryness · Flame-retardant enclosure provides high resistance to heat and ensures device safety under harsh conditions · Wide measurement range: –40°C to 85°C for temperature, and 0–100% RH for humidity
LoRa Wireless T&H Sensor		· Low-power design with up to 2 years battery life (at 1-minute reporting interval) · Configurable reporting interval: 10 to 3600 seconds · Supports magnetic and wall-mount installation, wire-free and easy to deploy · Tool-free rear cover design for convenient battery replacement
Zigbee Wireless T&H Sensor		· Built-in battery provides over 2 years of continuous operation, with low battery status indicator (1-minute upload interval in low power state) · Magnetic battery compartment design allows quick, tool-free battery replacement for minimal maintenance effort · Compact form factor supports both magnetic and wall mounting. Sensors can be quickly added or repositioned as needed, without wiring or space constraints

Product Features



Multiple wired and wireless communication options, including Zigbee, LoRa, and RS485.



Flexible installation options: magnetic mounting, wall mounting, and DIN rail mounting.



Supports precise temperature monitoring in rack interiors and aisle environments — purpose-built for data center applications.



Some models feature built-in display with local data display and configuration capabilities



Wide measurement range, high accuracy, and low power consumption



Selected models support near-zero latency sensing for real-time response.