

CMTH Temperature & Humidity Sensor for Condition Monitoring



Monitor Temperature & Humidity in One Solution

IO-Link Makes Tracking Environmental Conditions Easy

Add to your arsenal of cloud-based diagnostic data and real-time environmental monitoring in one device with the new CMTH sensor from Turck. Continuously monitor relative humidity and temperature in manufacturing, warehouse and process automation environments for maximum machine availability. IO-Link makes tracking process values over time easy, enabling smart condition monitoring. If the temperature and humidity exceed the specified limits, operators are alerted via the local switching outputs. Alternatively, cloud-based functionality can send out alerts via SMS. This IP67-rated sensor ensures optimal adaptation to harsh application environments.

In standard I/O mode (SIO) the sensor outputs one switching output for temperature and one for humidity. This mode is ideal for retrofitting environmental monitoring in brownfield applications where digital interfaces like IO-Link may or may not be available. IO-Link mode is ideal in factories and for machines since this solution not only provides a continuous output of process values but also provides data necessary for predictive and preventative maintenance functions.

CMTH Sensor Benefits:

- Temperature and humidity monitoring in one device
- Histogram available via IO-Link for temperature and humidity
- Compact footprint for almost all application locations
- IO-Link enables continuous feedback and remote monitoring
- Ideal for tracking ambient environmental conditions in critical applications
- Rated IP67

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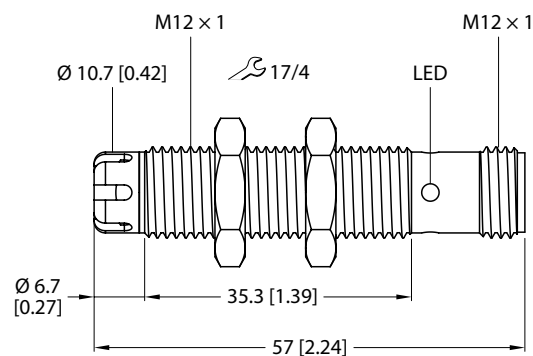
Applications for the CMTH can be found wherever ambient temperature and humidity affect machine availability or process quality. Storage temperature and humidity levels are important factors to monitor to optimize machine operations and help ensure quality control in a variety of applications:

- Control cabinet monitoring of electronics improves uptime
- Pharmaceutical applications where temperature and humidity are factors
- Molten material processes such as glass manufacturing
- Climate controlled storage environments to prevent spoilage or damage to goods, such as meat or cheese aging warehouses



Technical Data - CMTH-M12-IOL6X2-H1141

Measuring Range (Temperature)	Measuring Range (Humidity)	Accuracy (Temperature)	Accuracy (Humidity)	Body Style	Electrical Connection
-40° - 212° F	0 – 100 % Rh	± 0.36° F	± 5% (10 – 90% Rh) ± 7% (0 – 10, 90 – 100 % Rh)	Barrel, 12 mm	M12 x 1



mm [Inch]