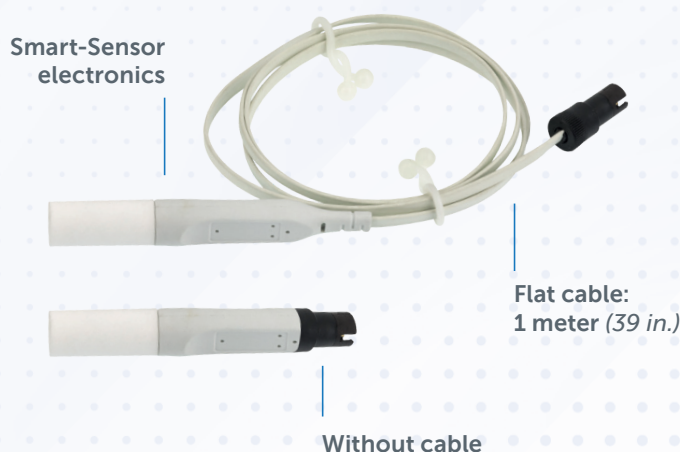# Temperature & Humidity Smart-Sensor™

For Cobalt X™ and Cobalt XS™

Dual T° and RH% sensor

Practical design for monitoring ambient conditions

Dickson's dual temperature and relative humidity sensor offers an innovative and convenient solution for monitoring ambient conditions in a variety of different use cases. Available with or without a flat extension cable, this compact sensor continually measures temperature and relative humidity so you can keep a close eye on the environmental conditions affecting your valuable assets.

Smart-Sensor electronics

Flat cable: 1 meter *(39 in.)*

Without cable

Measurement ranges

- Temperature: -40°C to +100°C (*-40°F to +212°F*)
- Relative humidity: 0% to 99.9% RH

Applications

- Monitoring ambient conditions in storage areas, warehouses, stability chambers, and incubators
- Biotechnology and life science laboratories
- Monitoring critical environmental conditions

Key features

- For OCEAView or DicksonOne Cloud monitoring platforms
- Single device measures both temperature and relative humidity
- Available with or without cable for an even more compact solution
- Plugs directly into Cobalt X1, X2, and XS data loggers
- Flat cable avoids deforming door seals

On-board intelligence

- Dickson's Smart-Sensor technology stores all calibration information directly in on-board memory, including calibration correction coefficients (a, a/b or a/b/c), measurement uncertainty after calibration, drift after 1 year, sensor serial number, calibration certificate number

Smart-Sensor benefits

- Calibration parameters stored directly in sensor memory
- Enables plug-and-play operation without requiring configuration
- At recalibration time, hot-swap with a freshly calibrated, ready-to-use sensor without any data gaps or down-time
- All-digital technology for maximum consistency and reliability

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Specifications

Temperature and humidity Smart-Sensor	
General	
Range	-40°C to +100°C 0% to 99.9% RH (non-condensing)
Data logger compatibility	Cobalt X2, Cobalt X1, Cobalt XS
Monitoring solution compatibility	OCEAView Cloud, OCEAView On-premises, DicksonOne Cloud
Product references	With 100 cm flat cable: SON.HYG.0003 Without cable): SON.HYG.0009
Metrology	
Resolution	0.01°C 0.05% RH
Expanded uncertainty	$\pm$0.3°C to $\pm$0.5°C $\pm$2% to 4% RH
Calibration options	ISO/IEC 17025 accredited Certified *(non-ac*credited) NIST traceable Recalibration via sensor exchange
Characteristics	
Sensor type	Smart-Sensor
Material	PTFE filter
Dimensions	Sensor unit: 33 x 11.6 mm Cable: 100 cm *(SON.HYG.0003 only)*
Protection Index	IP65

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