

sensor⁺

Flexible, automated monitoring solutions.

Configurable sensor heads for custom applications.

Ensures continuous records for audit and review.



Features

- Easy to install and maintain
- Reliable continuous measurements
- Intelligent data transfer – no lost records
- Supports static or mobile monitoring applications
- Flexible 'rule' configuration for sensor measurement and status – trigger alerts exactly when you need them

	sensor ⁺ air temperature	sensor ⁺ humidity & air temperature	sensor ⁺ door
Technical Specifications			
Data sampling/transfer rate	Data sampling every 1 minute, data transfer every 5 minutes.	Data sampling every 1 minute, data transfer every 5 minutes.	Real-time read and transfer on door open/close status
Data storage capacity	3.5 days	3.5 days	5460 door open/close events
Electronic certification	CE and FCC/UL compliant	CE and FCC/UL compliant	CE and FCC/UL compliant
User feedback modes	Magnetic reed switch and Red/Green LEDs for status indication	Magnetic reed switch and Red/Green LEDs for status indication	Magnetic reed switch and Red/Green LEDs for status indication
Sensor+ Head			
Dimensions	49.0 x 37.4 x 32.9mm	49.0 x 37.4 x 32.9mm	14.0 x 38.0 x 8.5mm (x2)
Weight	90g (inc. wall bracket, sensor and cable)	90g (inc. wall bracket, sensor and cable)	60g (inc. door magnet, sensor and cable)
Water resistance	IP67 rated	---	IP67 rated
Ambient operating conditions	-20°C to +60°C at 0 to 100% humidity (condensing or non-condensing)	-20°C to +60°C at 0 to 100% humidity (condensing or non-condensing)	-20°C to +60°C at 0 to 100% humidity (condensing or non-condensing)
Sensor type and integration	Measurement Specialties TSYS02D (ASIC) with 2m external lead	Sensiron SHT21 with 2m external lead	Elmdene with 2m external lead
Temperature measurement range	-20°C to +60°C	---	---
Temperature accuracy	±0.6°C (-20°C to 0°C) ±0.3°C (0°C to 45°C) ±0.6°C (45°C to 60°C)	±1°C (-20°C to +5°C) ±0.5°C (5°C to 60°C)	---
Temperature resolution	0.1°C	0.1°C	---
Sensitivity	---	---	Magnetic activation ≤ 10mm from sensor
Humidity range	---	0 to 100% humidity	---
Humidity accuracy	---	±5%ΔRH (0 to 20% and 80% to 100% RH range) ±3%ΔRH (20 to 80% RH range)	---
Humidity resolution	---	0.1%	---

Technical Specifications	sensor ⁺ ultra cold air temperature	sensor ⁺ hot air/liquid temperature	sensor ⁺ ultra hot air temperature
	Data sampling/transfer rate	User configurable sampling every 30 seconds - 30 minutes and transfer 5 minutes - 30 minutes.	Data sampling every 1 minute, data transfer every 5 minutes.
Data storage capacity	3.5 days	3.5 days	5460 door open/close events
Electronic certification	CE and FCC/UL compliant	CE and FCC/UL compliant	CE and FCC/UL compliant
User feedback modes	Magnetic reed switch and Red/Green LEDs for status indication	Magnetic reed switch and Red/Green LEDs for status indication	Magnetic reed switch and Red/Green LEDs for status indication
Sensor+ Head			
Dimensions	3.0 x 50.0mm	3.0 x 50.0mm	3.0 x 200.0mm
Weight	70g	70g	70g
Water resistance	IP67 rated	IP67 rated	IP67 rated
Ambient operating conditions	0°C to +40°C at ≤ 90% relative humidity	0°C to +40°C at ≤ 90% relative humidity	0°C to +40°C at ≤ 90% relative humidity
Sensor type and integration	RTD, Platinum Temperature sensor with 1.5m external lead	RTD, Platinum Temperature sensor with 1.5m external lead	RTD, Platinum Temperature sensor with 1.5m external lead
Temperature measurement range	-80°C to -20°C	0°C to +100°C	+100°C to 260°C
Temperature accuracy	±2°C (-80°C to -20°C)	±0.5°C (0°C to +100°C)	±2°C (+100°C to 260°C)
Temperature resolution	0.1°C	0.1°C	0.1°C
Sensitivity	---	---	---
Humidity range	---	---	---
Humidity accuracy	---	---	---
Humidity resolution	---	---	---

Power Unit	
Dimensions	92.3 x 93.3 x 38.3mm
Weight	145g (inc. wall bracket)
Water resistance	Splash proof when mounted in correct position
Power source	Non-rechargeable lithium thionyl chloride 3.6V (2600mAh) AA size battery (user replaceable)
Ambient operating conditions	0°C to +40°C at ≤ 90% humidity (non-condensing)
Wireless communication protocol	ZigBee® 2.4GHz (IEEE 802.15.4) Frequency range: 2400 - 2500MHz, Max power: 8dBm