

TZ Sensors™



48-8116CF
Temperature Sensor



48-8117CF
Humidity Sensor

Features

- Measures temperature.
- Measures Relative Humidity.
- Determines door open / closed status.
- Detects presence of liquid.
- Data presented via web page interface.

TZ Sensors™ are an extremely cost-effective way of providing environmental monitoring within the TZ Centurion™ network. At the cabinet level they monitor a range of operating conditions: Temperature, humidity, door contact and leak detection.

- TZ Temperature Sensor measures the ambient temperature within the cabinet, measuring temperatures between -15°C to 60°C (5°F to 140°F).
- TZ Relative Humidity Sensor measures relative humidity between 5% and 95%
- TZ Door Contact Sensor is a magnetic reed switch, which allows the TZ device to determine when a door is open or closed.
- TZ Leak Detection Sensor is a sealed optical device that can detect the presence of liquids.

Benefits

- TZ sensors use the decentralised intelligence of TZ locking devices and the network infrastructure to provide a granular and low cost environmental monitoring solution.
- Contact closure sensors enable the open closed status of a door to be reported in an audit trail.
- The small physical size of the devices have minimum impact on cabinet space and installed equipment .



48-8115CF
Door Contact Sensor



48-8118CF
Liquid Sensor

Specifications

Specifications subject to change to suit particular application requirements.

Physical & Mountings	
Dimensions: Door contact sensor ⁽¹⁾	2 pieces – 34mm x 14mm x 9mm (1.34" x 0.5" x 0.35") w/ 1220mm (48") connector.
Temperature ⁽²⁾ / humidity sensor ⁽³⁾	35mm x 35mm x 15mm (1.4" x 1.4" x 0.6") w/ 2000mm (78") connector
Leak sensor ⁽⁴⁾	35mm x 35mm x 15mm (1.4" x 1.4" x 0.6") with 216 mm (8.5") extension.
Weight:	⁽¹⁾ 22g (0.8oz) ⁽²⁾ 12g (0.4oz) ⁽³⁾ 12 g (0.4oz) ⁽⁴⁾ 12g (0.4oz) plus 30g (1.0oz)
Mounting:	Double sided stick tape

Sensors (Range & Accuracy)	
Door contact sensor:	Open / Closed
Temperature sensor:	Temperature ($\pm 2^{\circ}\text{C}$ between -10°C and 70°C)
Humidity sensor:	Relative Humidity ($\pm 3\%$ between 5% and 95%)

Environmental & Performance	
Operating temperature:	-15°C to 85°C (5°F to 235°F)
Ingress protection:	IP 20
Non combustible	

Electrical	
Supply voltage:	9.0 – 32.0VDC – powered via TZ Device Network
Current Usage:	⁽¹⁾ < 4mA ⁽²⁾ 4mA ⁽³⁾ < 4mA ⁽⁴⁾ < 15mA Sinks up to an additional 10mA
Door contact sensor:	Normally open, dry contact
Temperature sensor:	Pinout: NC, GND, NC, Temperature
Humidity sensor:	Pinout: V+, GND, Relative Humidity, NC
Leak sensor:	Pinout: V+, GND, Signal, NC Additional Pinout: V+, GND, Signal

Standards Compliance
FCC Part 15 Class B, CE, UL (c-us) per IEC/UL/CSA 60950-1 RoHS compliant, One Year Limited Warranty

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