

## 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	
<b>Dimensions:</b> Door contact sensor <sup>(1)</sup>	2 pieces – 34mm x 14mm x 9mm (1.34" x 0.5" x 0.35") w/ 1220mm (48") connector.
Temperature <sup>(2)</sup> / humidity sensor <sup>(3)</sup>	35mm x 35mm x 15mm (1.4" x 1.4" x 0.6") w/ 2000mm (78") connector
Leak sensor <sup>(4)</sup>	35mm x 35mm x 15mm (1.4" x 1.4" x 0.6") with 216 mm (8.5") extension.
Weight:	<sup>(1)</sup> 22g (0.8oz)   <sup>(2)</sup> 12g (0.4oz)   <sup>(3)</sup> 12 g (0.4oz)   <sup>(4)</sup> 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 $-10^{\circ}\text{C}$ and $70^{\circ}\text{C}$ )
Humidity sensor:	Relative Humidity ( $\pm 3\%$ between 5% and 95%)

Environmental & Performance	
Operating temperature:	$-15^{\circ}\text{C}$ to $85^{\circ}\text{C}$ ( $5^{\circ}\text{F}$ to $235^{\circ}\text{F}$ )
Ingress protection:	IP 20
Non combustible	

Electrical	
Supply voltage:	9.0 – 32.0VDC – powered via TZ Device Network
Current Usage:	<sup>(1)</sup> < 4mA   <sup>(2)</sup> 4mA   <sup>(3)</sup> < 4mA   <sup>(4)</sup> < 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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