

## SmartSense Z Sensor

### Expandable Wireless Sensor

Efficiently monitor temperature in real-time. Our dashboard centralizes corrective action management and reporting for regulatory compliance and quality control. Sensors deploy in minutes and fully automate temperature monitoring of fridges, freezers, and equipment.

### Features

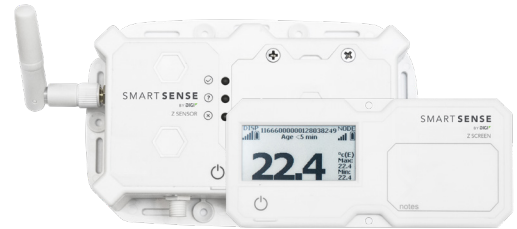
- Quickly add real-time monitoring to your fridges, freezers, and walk-ins.
- Sensors automatically connect to gateways for a self-provisioning installation process.
- Includes internal temperature sensor & two ports for NIST Calibrated probes and easy recalibration (temperature, extended range, humidity, and glycol product simulator).

### Specifications

Product SKU	TM-ZP300-DS
Wireless	2.4 Ghz
Dimensions	1.1", 3.3", 6.62" (28mm x 83.8mm x 168mm)
Sensor Accuracy	±0.5°C (±0.9°F) 0.1° Resolution
Built-in Sensor Range	-20°C to 60°C (-4°F to 140°F)
External Extended Range Probe	-200°C to 200°C (-328°F to 392°F)
Expansion Ports	2 ports for external sensors, e.g. NIST temperature, humidity, glycol buffer
Environmental	IP67
Communication Range	Up to 1,000 feet*
Communication Interval	15 minutes
Display	Wireless high-contrast display with audible/visual alarm
Sensors per Gateway	Up to 32 wireless sensors connect to each SmartSense BZ Gateway
Battery Life	Up to 5 years** (2 replaceable AA batteries)
Security	128 bit AES encryption   Certificate based authentication
Warranty	1 Year

\* Actual communication range will depend on RF environment

\*\* Actual battery life will depend on communication interval and environmental conditions including operating temperature



Wireless, removable, and magnetic display

NIST Calibrated Probes Available



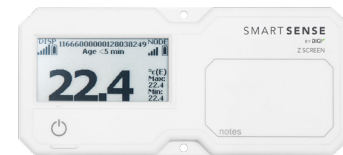
**NIST**

For more information about SmartSense Z Sensors visit [www.smartsense.co](http://www.smartsense.co) or call +1 (866) 806-2653

## SmartSense Z Screen

### Digital Display Screen

The SmartSense Z Screen is a wireless high contrast external display that pairs with a SmartSense Z Sensor. Conveniently mount outside the fridge or freezer asset location using incorporated magnets. Provides local audible and/or visual alarm options. Pair with a simple button press.



### Features

- Displays the last Z Sensor readings from both internal and external sensor ports every 5 minutes.
- Displays Z Screen and Z Sensor battery life and signal strength.
- Toggles between Celsius and Fahrenheit displays.
- Options for audible or visual status:  
SKU: DS-SCREEN - Beeps when in alarm.  
SKU: DS-SCREEN-LED - Flashes when in alarm.

### Sensor Reading Display Options

The Z Screen can display readings from any of the Z Sensor's internal or external ports in various configurations

#### No external sensor probes

Displays internal sensor reading only (Port 0 - internal port)

#### External sensor probe on Port 1

Displays sensor reading from port 1

#### External sensor probe on Port 2

Displays sensor reading from Port 2 and Port 0 (internal port)

#### External sensor probe on Port 1 and Port 2

Display sensor readings from all three ports

### Specifications

Product SKU	DS-SCREEN, DS-SCREEN-LED
Wireless	2.4 GHz (receive only)
Wireless Range	Up to 150' line of sight from the Z Sensor*
Operating Temperature Range	0°C to 50°C (32°F to 122°F - Ambient)
Dimensions	0.5", 2", 4.5" (12.7mm x 50.8mm x 114mm)
Mounting	3 x magnets
Screens Per Sensor	Unlimited
Battery Life	Up to 5 years** (4 replaceable Lithium Ion AAA batteries)
Security	128 bit AES encryption   Certificate-based authentication
Warranty	1 year

\* Actual communication range will depend on RF environment

\*\* Actual battery life will depend on communication interval and environmental conditions including operating temperature

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## SmartSense Probes With NIST Calibration

The SmartSense Z Sensor supports a variety of probes, with NIST calibration, to enable your business to monitor a wide range of environments.



### Sealed Temperature Probe

2 Year NIST Calibration  
 PN: NIST-TMP5PINDIN  
 PN: NIST-TMP5PINDIN-PREM  
 Range: -40°C to 60°C (-40°F to 140°F)  
 Accuracy:  $\pm 0.5^{\circ}\text{C}$  (0.9°F)\*  
 Length: 1.125 in / 28.5 mm



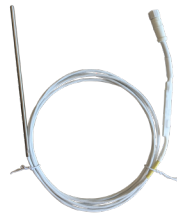
### Sealed Temperature & Humidity Probe

2 Year NIST Calibration  
 PN: NIST-TMPH5PINDIN  
 PN: NIST-TMPH5PINDIN-PREM  
 Range: -40°C to 60°C (-40°F to 140°F); 0-100% RH  
 Accuracy:  $\pm 0.5^{\circ}\text{C}$  (0.9°F)\*;  $\pm 3\%$  RH\*\*  
 Length: 1.125 in / 28.5 mm



### 6' Temperature Probe

2 Year NIST Calibration  
 PN: NIST-TMP5PINDIN6-PREM  
 Range: -40°C to 80°C (-40°F to 176°F)\*  
 Accuracy:  $\pm 0.5^{\circ}\text{C}$  (0.9°F)\*  
 Cable Length: 6 ft / 1.82 m  
 Cable Diameter: 0.2 in / 5 mm



### 6' Extended Range Probe

2 Year NIST Calibration  
 PN: NIST-TMPEX5PINDIN6-PREM  
 Range: -200°C to 200°C (-328°F to 392°F)\*\*\*  
 Accuracy:  $\pm 1.3^{\circ}\text{C}$  (<-40°C)  
 Accuracy:  $\pm 0.5^{\circ}\text{C}$  (-40°C to 40°C)  
 Accuracy:  $\pm 1.3^{\circ}\text{C}$  (>40°C)  
 Cable Length: 6 ft / 1.82 m  
 Cable Diameter: 0.12 in / 3 mm



### Glycol Simulator Probe

2 Year NIST Calibration  
 PN: NIST-TMP5PINDIN-BUFF12  
 Range: -40°C to 80°C (-40°F to 176°F)\*\*\*  
 Accuracy:  $\pm 0.5^{\circ}\text{C}$  (0.9°F)\*  
 Tip Length: 3.0 in / 76 mm  
 Vial Length: 4.06 in / 103.12 mm  
 Cable Length: 1 ft / 304.8 mm  
 Cable Diameter: 0.2 in / 5 mm

\* Accurate from -10°C (14°F) to 85°C (185°F)  
 \*\* Accurate from 11% RH to 89% RH  
 \*\*\* Range is achieved using external, wired probe



## NIST

NIST recalibration is provided by replacing the expired probe.

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