

ITD-736TH Ambient Sensor



ITD-736TH Ambient Sensor

- Wireless operation over available over Wi-Fi network, CCX or 900 MHz
- -40 °C to 100 °C (+/- 0.5 °C)
- 2% RH; Accuracy (10-90%)
- Reliable and accurate temperature and humidity sensing
- Replaceable temperature and humidity calibrated modules for cost efficient yearly replacement
- Configurable reporting rates
- Local audible alerting when temperatures or conditions are sensed outside of parameters
- Patented Guaranteed Data Delivery (GDD) for up to 30 days if network is down
- Long battery life with low-battery alert feature
- Configurable reporting rates
- BLE connectivity for local setup and monitoring

The ITD-736TH is a temperature and humidity sensor that has the ability to sense environmental changes reliably and accurately with customizable reporting rates.

The ITD-736TH Ambient Sensor is part of CenTrak's family of environmental sensors. The devices enable a cost effective mechanism to ensure correct temperature and humidity levels in rooms or refrigerators. The ITD-736TH can generate alerts when temperatures or humidity levels are sensed above or below set parameters, and the system can provide logs which eliminate human error and the cost of manual documentation. The sensors will continue to monitor temperature and humidity in the event of a power outage, and have the ability to store measurements off line which can be transmitted when the network is restored. These sensors can operate over CCX, regular Wi-Fi or 902-928 MHz ISM band.

Maintenance and management is easy. CenTrak's family of environmental sensors offer extreme battery life, are fully configurable in the field and allow for wireless upgrades.

ITD-736TH Ambient Sensor Technical Specifications



ITD-736TH Ambient Sensor

Operation

Wi-Fi or 900 MHz	2.4 GHz (operates using CCX or Wi-Fi on 802.11 b/g) or 902-928 MHz ISM band
BLE (Bluetooth)	2.4 GHz (operates according to BLE protocol)
Display	Multi-line display
LED indicator	YES
NIST traceable calibration	YES
Battery Replacement	YES, single screw
Temperature Range (accuracy)	0 °C to 70 °C +/- 0.5 °C, 2% RH

Sensor Dimensions

Case Length	2.7 in (68 mm)
Case Height	4.5 in (114 mm)
Case Width	0.8 to 0.9 in (21 to 24 mm)
Case Weight (with battery)	4 oz. (114 g)
Construction	PC/ABS Mixture
Durability	Tough, impact resistant and temperature stable

Environmental/Cleaning

Storage Temperature (Tag)	-20 °C to +75 °C (for best battery life store at room temperature or below)
Sealing	Splash resistant
Sensor cleaning method	Wipe Cleaning Method Only. See CenTrak Disinfection Guide for Instructions

Power

Battery Type	Single Lithium AA (replaceable)
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*Available features may vary based upon the mode of operation

IC Statement per the requirements in RSS-Gen Section 8.4 and RSP-100 Section 4.

English:

This component complies with Industry Canada 's license-exempt RSSs. Operation is subject to the following two conditions:

(1) This device may not cause interference; and

(2) This device must accept any interference, including interference that may cause undesired operation of the device.

French:

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Warning: For mobile or fixed location transmitters, the minimum separation distance between the antenna & radiating structures of the device and nearby persons is 20 cm, even if calculations indicate that the MPE distance would be less.

ITD-736LT Cryo Sensor



ITD-736LT Cryo Sensor
*Patented GDD

- Wireless operation available over CCX, regular WiFi Wi-Fi or 900 MHz ISM band
 - -90 °C to -30 °C (+/- 0.5 °C)
- Reliable and accurate temperature sensing
 Patented Guaranteed Data Delivery (GDD*) after network outage via stored data
 NIST traceable calibration
 Instant button-initiated temperature measurement
 Multiple cable lengths and types for a variety of applications
 Multi-year battery life with low-battery alerting feature
 Local audible and LED visual alerts when outside user-selected range
 Configurable reporting rates
 Door ajar sensing
 BLE connectivity for local setup and monitoring

All of CenTrak Environmental Sensors, like the ITD-736LT, are designed to eliminate manual measurements and meet regulatory requirements. The sensors use high quality probes to ensure accurate measurement and reliable performance. Data storage secures temperature readings during network outages and delivers the data to eliminate and data gaps.

The ITD-736LT, is a probe-based temperature sensor that has the ability to precisely monitor the temperatures required for cryogenic or extreme low temperature storage and handling. The sensor comes equipped with LCD screen, cryogenic probe and buffer agent.



Ribbon Cable Probe ITA-781F (right).

The device enables a cost effective mechanism to ensure critical items are stored at desired cold temperatures. The ITD-736LT, can generate alerts when temperatures are sensed above or below set parameters, and the system can provide temperature logs which eliminate human error and the cost of manual documentation. The sensors will continue to monitor temperature in the event of a power or network outage, and have the ability to store measurements off line which can be transmitted when the network is restored. These sensors can operate over any CCX or Wi-Fi network.

Maintenance and management is easy. The CenTrak family of environmental sensors offer extreme battery life, are fully configurable in the field and allow for wireless upgrades. Reporting rates can be customized down to a few seconds for application requiring high time resolution.

ITD-736LT Cryo Sensor

Technical Specifications



Environmental Sensor Probes

- ITA-781F
 - Available in 1', 6', 12', and 25' lengths with round probe cable.
 - Specify flat ribbon cable for door seal installs.

Other CenTrak Environmental Sensors

- ITD-736TO Temperature Sensor
- ITD-736TH Ambient Sensor

Operation*

Wi-Fi or 900 MHz	2.4 GHz (operates using CCX or Wi-Fi on 802.11 b/g) or 902-928 MHz ISM band
Bluetooth	2.4 to 2.485 GHz
Number of probe ports	1
LED indicator	YES
Local Audible Alert	YES
NIST traceable calibration	YES
Battery Replacement	YES
Temperature Ranges (accuracy)	-90 °C to -30 °C (+/- 0.5 °C)

Sensor Dimensions

Case Length	2.7 in (68 mm)
Case Height	4.5 in (114 mm)
Case Width	0.8 to 0.9 in (21 to 24 mm)
Case Weight (with battery)	4 oz. (114 g)
Construction	PC/ABS Mixture
Durability	Tough, impact resistant and temperature stable

Environmental/Cleaning

Storage Temperature (Sensor)	-20 °C to 75 °C (for best battery life, store at room temperature or below)
Sealing	Splash resistant
Sensor cleaning method	Wipe Cleaning Method Only. See CenTrak Tag Disinfection Guide for Instructions

Power

Battery Type	Single Lithium AA (replaceable)
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Warning: For mobile or fixed location transmitters, the minimum separation distance between the antenna & radiating structures of the device and nearby persons is 20 cm, even if calculations indicate that the MPE distance would be less.

ITD-736TO Temperature Sensor



ITD0736TO Temperature Sensor

- Operates using CCX, regular WiFi or the 900 MHz ISM band
- Reliable and accurate wireless temperature sensing
- -40 °C to 100 °C (+/- 0.5 °C maximum)
- Rotating display to support multi-direction sensor mounting
- Long battery life with low-battery alert feature
- Configurable reporting rates
- Local audible alerting when temperatures or conditions are sensed outside of parameters
- Onboard backup storage with Patented Guaranteed Data Delivery (GDD) for up to 30 days in case of network disruptions
- Door ajar sensing
- BLE connectivity for local setup and monitoring

All of CenTrak's Environmental Sensors, like the ITD-7386TO, are designed to eliminate the need to take continual manual measurements 24/7 to meet regulatory requirements. The sensors use high quality probes, rather than thermistors, to ensure accurate and reliable read performance, with back up storage to secure readings at all times.



Buffer agent accessory (left). Available in small and large sizes. ITA-740, ITA-741

The ITD-736TO is a probe-based temperature sensor that has the ability to monitor a wide range of temperatures, from freezers to above room temperature reliably and accurately with customizable reporting rates. The sensor comes equipped with two ports for to support door ajar sensing and temperature sensing. The build-in display allows for immediate temperature viewing.

The device enables a cost effective mechanism to ensure critical items are stored at desired temperatures. The ITD-736TO can generate alerts when temperatures are sensed above or below set parameters, and the system can provide temperature logs which eliminate human error and the cost of manual documentation. The sensors will continue to monitor temperature in the event of a power outage, and have the ability to store measurements off line which can be transmitted when the network is restored. These sensors can operate over any CCX or Wi-Fi network.

Maintenance and management is easy. CenTrak's family of environmental sensors offer extreme battery life, are fully configurable in the field and allow for wireless upgrades.

ITD-736TO Temperature Sensor Technical Specifications



ITD0736TO Temperature
Sensor

Operation

Wi-Fi or 900 MHz	2.4 GHz (operates using CCX or Wi-Fi on 802.11 b/g) or 902-928 MHz ISM band
Bluetooth	2.4 to 2.485 GHz
Number of probe ports	1
LED indicator	YES
Local Audible Alert	YES
NIST traceable calibration	YES
Battery Replacement	YES
Temperature Ranges	-40°C to 100C (0.5°C accuracy)

Sensor Dimensions

Case Length	2.7 in (68 mm)
Case Height	4.5 in (114 mm)
Case Width	0.8 to 0.9 in (21 to 24 mm)
Case Weight (with battery)	4 oz. (114 g)
Construction	PC/ABS Mixture
Durability	Tough, impact resistant and temperature stable

Environmental/Cleaning

Storage Temperature (Sensor)	-20° C to +75° C (for best battery life store at room temperature or below)
Sealing	Splash resistant
Sensor cleaning method	Wipe Cleaning Method Only. See CenTrak Tag Disinfection Guide for Instructions

Power

Battery Type	Single Lithium AA (replaceable)
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