

ITD-738F Temperature Sensor



ITD-738F
Multi-Mode Dual Probe-
Based Temperature Sensor

- Operates using CCX (on Wi-Fi networks) or 900 MHz
- Reliable and accurate wireless temperature sensing
- NIST traceable calibration
- Covers ranges from -200°C (-328°F) to + 75°C (+167°F)
- 0.75°C standard accuracy (0.5°C typical)
- Leverages existing 802.11 networks
- Instant button-initiated temperature measurement
- Multi-year battery life (typically greater than 5 years)
- Configurable reporting rates
- Low battery condition alerting
- Onboard backup storage of temperature data
- Local audible alerting when temperatures or conditions are sensed outside of parameters
- Dual probe ports to accurately measure temperatures of two environments with a single sensor
- Patent-pending Guaranteed Data Delivery (GDD) for up to 30 days if network is down
- Onboard Clinical-Grade Locating™ technology
- One of two ports can support door ajar sensing



6' Door Ajar Sensor and Data
Cable
ITA-787F-6-DA

All of CenTrak's Environmental Sensors, like the ITD-738F, 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.

The ITD-738F is a probe-based temperature sensor that has the ability to monitor a wide range of temperatures, from cryogenic to above room temperature reliably and accurately with customizable reporting rates down to a few seconds. The sensor comes equipped with two ports for probes to support door ajar sensing or temperature sensing of two distinct environments (for example refrigerator and freezer).

The device enables a cost effective mechanism to ensure critical items are stored at desired temperatures. The ITD-738F 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.

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.

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Technical Specifications

Operation

Operating Frequency	2.4 GHz (operates using CCX on 802.11 b/g)
Operating Frequency (Secondary)	902-928 MHz
Number of probe ports	2
LED indicator	YES
Local Audible Alert	YES
NIST traceable calibration	YES
Battery Replacement	YES
Temperature Ranges	-200°C (-328°F) to +75°C (+167°F) (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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Dual probe ports (mini-USB)



Ribbon cable easily slides through refrigerator door seal

Environmental Sensor Probes

- 5.5' with ribbon cable insert
ITA-781F-6R: -50° C to +75° C
- 12' with ribbon cable insert
ITA-781F-12R: -50° C to +75° C
- 13' with ribbon cable insert
ITA-781F-13R: -50° C to +75° C (Blood Bank use only for lower zone monitoring)
- 25' with ribbon cable insert
ITA-781F-25R: -50° C to +75° C
- 13' with ribbon cable insert
ITA-782F-13R: -100° C to -50° C
- 5.5' with round cable for LN₂
ITA-783F-6: -200° C to -100° C

Bottle & Probe Holders

60ml Bottle and Holder for probe – Silica Buffer ITAK-785-60-SB

60 ml Bottle and holder for probe – Glycol Buffer ITAK-785-60-GL

30ml Bottle and holder for probe – Silica Buffer ITAK-785-30-SB

30ml Bottle and holder for probe – Glycol Buffer ITAK-785-30-GL

175ml Bottle and holder for probe – Glycol Buffer ITAK-785-175-GL



Available features may vary based upon the mode of operation.

This component complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: 1) The device may not cause harmful interference, and 2) this device must accept any interference received, including interference that may cause undesired operation. Modifying or tampering with the transceiver's or receiver's internal components can cause a malfunction, invalidate the warranty, and will void FCC authorization to use these products. This product or its systems are covered by one or more of the patents listed at www.centrak.com/patents

L' utilisation de ce dispositif est autorisée seulement aux conditions suivantes : (1) il ne doit pas produire de brouillage et (2) l' utilisateur du dispositif doit être prêt à accepter tout brouillage radioélectrique reçu, même si ce brouillage est susceptible de compromettre le fonctionnement du dispositif.