

### Key Benefits

- TDC monitors freezer / cooler temperatures
- Provides real-time alarms, notifications, trends and historical reports
- Automation of data collection & reporting
- Flexible communications include Internet, wireless, cell-phone, satellite & IT gateway
- Scalable system from small to large facilities
- High-gain, flexible, robust, whip antenna (250 - 300 ft. range)\*\*
- Uncluttered 900 MHz Operating Frequency
- Long-life AA batteries
- Many highly accurate sensor types available
- Robust, flame retardant ABS plastic housing

### Applications

- Coolers & Freezers
- Environmental Monitoring
- HVAC Operation & Testing
- Data Center Monitoring
- Dishwasher Monitoring

### Temperature Data Collection System (TDC)

#### FOOD TEMPERATURE / RISK MANAGEMENT / REGULATORY COMPLIANCE

Selectric's integrated system (TDC) provides an automated solution for refrigeration appliance temperature monitoring, automated data collection and notification.

TDC uses proven technologies and methods to provide regulatory compliance, improve operational efficiencies, reduce costs, protect investments and manage risks.



### Selectric Sensor Core Specifications

<b>Power Requirements:</b>	(2) 1.5V AA Lithium battery
<b>Communication:</b>	RF 900 MHz
<b>Dimensions:</b>	3" (L) x 2.1" (W) x 1.2" (H)
<b>Operating Temperature:</b>	-40° to 85°C (-40° to 185°F)
<b>Device Range:</b>	300 ft. non-line-of-sight *
<b>Battery Life:</b>	+300,000 Transmissions ** (~ 3-5 Year Battery Life Depending on Settings)

\* Actual range may vary depending on environment.

\*\* Battery life is determined by sensor reporting frequency and other variables.

The Data Collect Wireless Temperature Sensor uses a highly accurate thermistor to measure temperature then wirelessly transmits the information to a Data Collect Link Gateway which sends the information to the online monitoring portal. The Data Collect online monitoring portal allows users to configure sensor parameters as well as set alerts if a sensor exceeds a set threshold. All data is stored in the online system and can be viewed or exported as a spreadsheet or graphs.

### Operating Characteristics

Supply Voltage	2.0 - 3.6 VDC
Current Consumption	0.7 $\mu$ A (sleep mode) 2 mA (radio idle/off mode) 2 mA (measurement mode) 25 mA (radio RX mode) 35 mA (radio TX mode)
Operating Temperature Range (Circuitry)	-40°C to +85°C ( -40°F to +185°F ) *
Optimal Battery Temperature Range	0°C to +60°C ( +32°F to +140°F )
Thermistor Temperature Range	-40°C to +125°C ( -40°F to +257°F )
Accuracy @ 25°C	+/- 2%
Time Constant @ 25°C	30 sec
Storage Humidity Range	< 75% RH

To reduce error, a variable resistor configuration is implemented over specified temperature ranges.

\* At temperatures above 100°C, it is possible to lose programmed memory.

### Caution/Notice:

This product is designed for application in an ordinary environment (normal room temperature, humidity and atmospheric pressure). Do not use this sensor under the following conditions as these factors can deteriorate the product characteristics and cause failures and burn-out.

- Corrosive gas or deoxidizing gas - chlorine gas, hydrogen sulfide gas, ammonia gas, sulfuric acid gas, nitric oxides gas, etc.).
- Volatile or flammable gas.
- Dusty conditions.
- Under low or high pressure.
- Wet or excessively humid locations.
- Places with salt water, oils chemical liquids or organic solvents.
- Where there are excessively strong vibrations.
- Other places where similar hazardous conditions exist.

Use this product within the specified temperature range. Higher temperature may cause deterioration of the characteristics or the material quality of this product.

## Call for a Quote or a Demo

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