

# REFRIGERATOR FREEZER TEMPERATURE MONITORING SOLUTIONS

## Aretas Sensor Networks

### HOW IT WORKS



#### MONITOR

Our monitors gather and transmit data to the communication bridge



#### GATHER DATA

Data from the communication bridge is sent securely to your private online data center account



#### ANALYZE & REPORT

Your data is archived, analyzed and reported in many useful ways



#### 24/7 ACCESS

Decision-making is easy from any computer or smart device

#### SENSOR OPTIONS

CO	Carbon Monoxide
CO2	Carbon Dioxide
dB	Noise
DP	Differential Pressure
NO2	Nitrogen Dioxide
O3	Ozone
PM	Particulate Matter
VOC	Volatile Organic Compounds

More options available

### Overview

The Aretas Refrigerator Freezer Temperature (TRH-F) monitoring system is an easy to install, wireless system that displays data online and sends customizable alerts via text message or email. Secure cloud based data allows decision-makers and maintenance staff to monitor TRH levels from anywhere at anytime.

The Refrigerator Freezer Temperature monitors functionality can be expanded to include sensors such as CO, NO2, O3, and VOC. The Refrigerator Freezer Temperature detector offers in depth data for potential energy-saving and money-saving opportunities.

#### Some refrigerator freezer temperature monitoring applications include:

- Measure freezer temperature & relative humidity with a high degree of accuracy and reliability.
- Continuous monitoring take the guesswork out of food & critical contents storage
- Lower risk of health & safety violations.

All systems include the ability for online data analytics and more including:

- Real-time remote wireless monitoring, 24/7, worldwide.
- Customizable alerts via text message and/or email.
- Access to live and historical data to track trends and make comparisons.
- Ability to add other monitoring systems and/or additional sensors, as needed.
- Simple, sturdy case designed to last.

### Features

- Battery-powered option with customizable reporting intervals and low power modes that enable long-term battery-powered operation.
- Wireless communication between one or more monitors and the communication bridge or PC-based data collection.
- 24/7 remote monitoring and threshold-based alerting.
- With the optional Internet-based communication bridge, you can access data online from anywhere in the world.
- Data can be exported to geographic information systems or other custom mapping systems.
- Data can also be exported from our large scale data warehouse, via API, to be analyzed by other programs.
- High resistance to radio frequency and electrostatic field noise.

### Product Specifications



#### Electrical Characteristics

Voltage input:

- 6xAA or 5V USB Mini-B

Connectivity:

- Digimesh + P2P 900MHz/868MHz long range
- Zigbee

Sensor polling rate: 2 min

#### Wireless T-F Monitor Specifications

- Range: -40°C to +125°C
- Resolution: up to  $\pm 0.025^\circ\text{C}$
- Response time: 5 to 30s (Dep. on airflow)
- Accuracy:  $\pm 1^\circ\text{C}$  Typ
- Operating temperature: -25°C to +85°C

#### Wireless RH-F Monitor Specifications

- Range: 10% to 90% RH
- Resolution: up to  $\pm 0.04\%$  RH
- Response time: 6s Typ.
- Accuracy: up to  $\pm 4\%$  RH
- Operating temperature: -25°C to +85°C