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GAS AND LIQUID CONTROL TECHNOLOGIES

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setra

Model SRF614

Ultra Low Temp

Wireless Temperature Transmitter

The SRF614 is used for wireless ultra low temperature measurement inside applications like freezers and cryogenic tanks. The SRF614 is suitable for use in measuring Liquid Nitrogen (LN_2) (the 2 in LN2 needs to be subscript). Up to three (3) external ultra low temperature sensor probes and a door contact sensor can be connected to one SRF614 Wireless Temperature Transmitter.

Probes and accessories are purchased separately. Please refer to Setra's website or the SRF600 Wireless Probes and Accessories Data Sheet.
In order to connect sensor probes to the SRF614 Wireless Temperature Transmitter, you need to purchase a SRF600 ADTR3.

Features

- External Thermistor Sensor Probe* Range: -196°C to +100°C / -321°F to +212°F
- Selectable Scales °C/°F
- Battery Life: Up to 2 years
- Warranty: 1 Year
- LCD screen for local temperature display at point of measurement
- LEDs allow checks of active/alarm indication
- Selectable scales °C/°F
- BioCote Antimicrobial Protection to inhibit growth of bacteria, mold and fungi providing an extra line of defense in high-risk environments
- Seamless connection to Setra's Continuous Environmental Monitoring Software (CEMS)

1 YEAR WARRANTY
USA Made
RoHS
CE

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Technical Specs

Scales	°C and °F
Internal Temp Range	Lithium Battery: -30°C To +60° Alkaline Battery: -18°C To +55°C
External Temp Range	-196°C to +100°C (-321°F to +212°F)
Resolution	0.1°C (0.2°F)
Door Sensor Resolution	5 Seconds
Instrument Accuracy	+/-0.1% ±0.2°C / ±0.4°F full range @ +23°C ambient
Temperature Coefficient	Less than ±0.01 % of reading ±0.02 °C per °C (±0.02°F per °F) change from 23°C
Hi Hi / Lo Lo Alarm	Hi Hi and Lo Lo Alarms with alarm delay and fully selectable alarms
Alarm Delay	0-60 minutes Delay is programmable for either Hi Hi or Lo Lo alarms or both independently
Number of Internal Channels	1
Number of External Channels	3
Rubber Over-Molding Case Material	Rubber Over-Molding with BioCote® Antimicrobial
Keypad	2 Button keypad standard on all models (Wi-Fi Provoke and Action Buttons)
Battery Specifications	(Qty. 4) AA Alkaline Cells OR (Qty. 4) L91 Energizer Ultimate Lithium
Battery Life	Up to 1 Year Battery Life with (Qty. 4) AA Alkaline Cells Up to 2 Years Battery Life with (Qty. 4) L91 Energizer Ultimate Lithium
Wi-Fi	(IEEE 802.11b/g/n) WPA2 Pre-Shared Key
Radio Range	Up to 15 meters Indoors ESP-32
Clock Accuracy	20ppm (1 minute/month) at 25°C (+77°F) Synchronized with the Cloud at least once per day
Logging Memory	Channels — Total Records* 1 — 140,000 2 — 96,000 3 — 76,000 4 — 60,000 5 — 52,000 6 — 44,000 *These numbers are absolute maximums and will be lower for multiple periods of data and/or when wraparound has been started.
Logging Frequency	Programmable between 1 minute and 60 minutes
Monitoring Frequency	1 Minute
Radio Rate	5 minutes to 24 hours Battery life is stated for >=1 Hour Radio Rate
Alarm / Active LEDs	GREEN LED flashing once per second indicates active logging RED LED flashing once per second indicates alarm Green LED indicates acknowledgement of long press of Wi-Fi button Green LED also indicates successful connection to the Cloud
Status LEDs	Green LED indicates main power connected Red LED indicates Wi-Fi module is powered up Flashing Yellow LED indicates trying to connect to the Wi-Fi network Solid Yellow LED indicates Wi-Fi connected Solid Red/Yellow combined LED indicates the transmitter is connected to the Cloud and communicating
Door Switch Alarms Continuous and Average	Continuous and average door alarms with 5 second detection period
Audible Alarm Buzzer	Audible alarm buzzer can be deactivated in the task (Can be silenced with button press on the transmitter)
Environmental Protection / Waterproof	IP65
Dimensions	L 110mm x W 100mm x D 45mm
Weight	300g
Power Supply Unit (PSU)	Optional PSU Part No SRF600 PWR
Maximum Probe Lead Length	Not to exceed 30m
Warranty	1 Year

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Ordering Information

Example part number: SRF614

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Model	
SRF614	SRF614

Compatible Probes and Accessories

Heavy Duty Door Event Sensor

The heavy-duty door event sensor can be used to trace changes in activity which lead to a rise or fall in temperatures beyond accepted limits.

Standard Door Event Sensor

The Standard Door Event Sensor works with RF600 Wireless Transmitters to monitor activity on doors such as those on refrigerators and freezers.

Mains Power Supply Unit

The Mains Power Supply Unit (PSU) serves as the power supply for SRF600 wireless transmitters when battery power is not acceptable or desired.

Ultra-Low Temperature Air Probe

Temperature Range:
-196°C to +100°C / -321°F to +212°F

Type T Adapter

Allows you to connect up to three (3) sub-miniature (Type T) probes via a single Lumberg connector.

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