



Model SRF614

Ultra Low Temperature Wireless Temperature Transmitter

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

Probes and accessories are purchased separately. In order to connect sensor probes to the SRF614 Wireless Temperature Transmitter, you need to purchase a SN2000ADP-T or SN2000ADP-K.

Features

- Integral Temperature Sensor*
- Add Up to 3 External Channels via Adapter
- External Thermocouple Sensor Probe Range: -200° to +1372°C (-328° to +2501.6°F)
- Selectable Scales: °C/°F
- Battery Life: Up to 1 year
- LCD screen for local temperature display
- LCD and LEDs indicate if alarms are active
- Connects to your local Wi-Fi network
- Designed for easy self-installation
- Seamless connection to Setra CEMS™ Connect or Setra CEMS™ Diligence environmental monitoring platforms

Technical Specifications

Scales	°C/°F	
Internal Temperature Range	-18°C to +55°C (-0.4°F to +131°F)	
External Temperature Range	-200° to +1372°C (-328° to +2501.6°F)	
Resolution	0.1°C (0.2°F)	
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	
High / Low Alarms and Alerts	All Channels - Low and High Alarms / Low and High Alerts both with Alarm Delay and fully selectable Alarms	
Number of Internal Channels	1	
Number of External Channels	3	
Alarm Delay	0-60 minutes	
Case Material	Overmolded Polycarbonate	
Keypad	2 Button keypad standard on all models (Wi-Fi Provoke and Action Buttons)	
Battery Specifications	(4) AA Alkaline Cells or L91 Energizer Ultimate Lithium	
Battery Life	Up to 1 Year	
Wi-Fi	(IEEE 802.11b/g/n) WPA2-PSK/WPA2-Enterprise	
Radio Range	Up to 20m indoors (ESP-32)	
Clock Accuracy	20ppm (1 minute/month) at 25°C (+77°F) Synchronized with the Cloud at least once per day	

	Channels	Total Records*
Logging Memory	1	140,000
	2	96,000
	3	76,000
	4	60,000

*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; >=4 Hours for best battery life
Alarm / Active LEDs (Front)	RED - ALARM / GREEN - Active
Status LEDs (Side)	RED - Wi-Fi Active / YELLOW - Communications Active
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
Maximum Probe Lead Length	Not to exceed 30m
Warranty	1 Year

*When used with a Setra probe or adapter is connected.



Ordering Information

Example part number: SRF614

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Model	
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Accessories

Part No.	Description
SRF614ADPT1	Type T Adapter 1 Submin Input
SRFAT100M	Type T Air Probe Submin (1m Lead)
SRFAT200M	Type T Air Probe Submin (2m Lead)
SRFAT500M	Type T Air Probe Submin (5m Lead)
SRFAT1000M	Type T Air Probe Submin (10m Lead)
SRFPTBB100M	Type T Blood Bag Penetration Probe Submin (1m Lead)
SRFPTBB200M	Type T Blood Bag Penetration Probe Submin (2m Lead)
SRFPTBB500M	Type T Blood Bag Penetration Probe Submin (5m Lead)
SRFPBB1000M	Type T Blood Bag Penetration Probe Submin (10m Lead)
SPK24M	Type K Thermocouple Penetration Probe Submin (1m Lead)
SPT31L	Type T Lumberg Thermocouple Penetration Probe (1m Lead)
SKX9556	Type T Thermocouple Flexible Wire Air Probe Submin (2m)
SKX9868	Type T Ultralow Thermocouple Probe Submin (2m Lead)
SN2000ADP-T	Type T Adapter 3 Submin Input
SN2000ADP-K	Type K Adapter 3 Submin Input

Specifications subject to change.