Model SRF612

Wireless Temperature Transmitter

The SRF612 is used for wireless temperature measurement inside applications like refrigerators, freezers, and incubators. Up to four (4) external temperature sensor probes and a door contact sensor can be connected to one SRF612 Wireless Temperature Transmitter.

Probes and accessories are purchased separately. Please refer to Setra's website or the SRF600 Wireless Probes and Accessories Data Sheet. If you wish to connect 2, 3 or 4 sensor probes to the SRF612 Wireless Temperature Transmitter, you need to purchase a SRF602Y or SRF601A.

Features

- Integral Temperature Sensor
- Add Up to 4 External Channels
- External Thermistor Sensor Probe Range: -40°C to +125°C (-40°F to +257°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
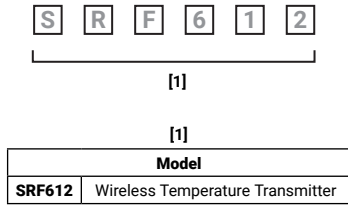
Technical Specifications

Scales	°C/°F
Internal Temperature Range	-18°C to +55°C (-0.4°F to +131°F)
External Temperature Range	-40°C to +125°C (-40°F to +257°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
System Accuracy	< ±0.3°C / ±0.6°F (0°C to +70°C, +32°F to +158°F) ±0.5°C / ±0.9°F (-25°C to +100°C, +13°F to +212°F) When used with Setra probe
Temperature Coefficient	±0.005 degree/degree
High / Low Alarms and Alerts	All Channels excluding Door Switch 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	4
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
	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; >=4 Hours for best battery life
Alarm / Active LEDs (Front)	RED - ALARM / GREEN - Active
Status LEDs (Side)	RED - Wi-Fi Active / YELLOW - Communications Active / GREEN - Mains Power Connected
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 SRF520
Maximum Probe Lead Length	Not to exceed 30m
Warranty	1 Year

Ordering Information

Example part number: SRF612

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Accessories

Part No.	Description
SRF520	Mains 5V Power Supply Unit
SRF521	Standard Door Switch
SRF522	Heavy-Duty Door Switch
SPX31L	PST Penetration Probe
SRFAX100	PST Air Probe (1m Lead)
SRFAX200	PST Air Probe (2m Lead)
SRFAX500	PST Air Probe (5m Lead)
SRFAX1000	PST Air Probe (10m Lead)
SRFAX100D	PST Air Probe Duplex (2x1m Lead)
SRFAX200D	PST Air Probe Duplex (2x2m Lead)
SRFAX500D	PST Air Probe Duplex (2x5m Lead)
SRFAX1000D	PST Air Probe Duplex (2x10m Lead)
SRFPX500D	PST Penetration Probe Duplex (2x5m Lead)
SRF602Y	SRF612/SRF615Y Adapter - 2 Input
SRF601A	SRF612 Adapter- 4 Input
SRFPXBB200D	PST Air and Penetration Duplex Blood Bag Probe (2m Lead)

Specifications subject to change.