

RFOT SPECIFICATIONS*

Temperature**

Probe Temperature Range:	-50 °C to +200 °C (-58 °F to +392 °F)
Resolution:	0.01 °C
Probe Calibrated Accuracy:	±0.1 °C (32 °F to 212 °F / 0 °C to +100 °C) ±0.5 °C (outside of that range)

Wireless

RF Frequency:	2.45 GHz IEEE 802.15.4 ultra-low power wireless transceiver with fully bi-directional communication
Band:	ISM band 2.405-2.48 GHz
Maximum Output Power:	+0 dBm typical (RFOT), 20 dBm maximum (RFC1000)
Receiver Sensitivity (RFC1000):	-95 dBm typical (RFOT), -104 dBm typical (RFC1000)
Transmission Distance (to data loggers)	<ul style="list-style-type: none"> • RFC1000, RFC1000-CE & RFC1000-IP69K 2,000 ft max. outdoors - line of sight unobstructed 500 ft max. indoors - typical urban environment
Transmission Distance (to other RFC1000's)	<ul style="list-style-type: none"> • RFC1000 4,000 ft max. outdoors - line of sight unobstructed 1,000 ft max. indoors - typical urban environment • RFC1000-CE 2,500 ft max. outdoors - line of sight unobstructed 700 ft max. indoors - typical urban environment • RFC1000-IP69K 4,000 ft max. outdoors - line of sight unobstructed 1,000 ft max. indoors - typical urban environment

**Temperature specifications based on ideal 100 Ω Pt RTD compliant with IEC 751 (1983) and ITS-90.

BATTERY WARNING: Fire, explosion and severe burn hazard. Do not recharge, disassemble, heat above 100 °C (212 °F), incinerate, crush, or expose contents to water.

General

Reading Rate:	1 reading every 2 seconds up to 1 reading every 24 hours
Memory:	21,504 readings; software configurable memory wrap
Wrap Around:	Yes
Start Modes:	Immediate start / delay start
Calibration:	Digital calibration through software
Calibration Date:	Automatically recorded within device
Battery Type:	3.6V lithium battery included; user replaceable
Battery Life:	2 years typical at 15 second reading rate
IP Rating:	IP67
Data Format:	Date and time stamped °C, °F, K, °R
Time Accuracy:	±10 second / month (at 25 °C)
Computer Interface:	USB 115,200 baud
Software:	Windows XP SP3 or later
Operating Environment:	-20 °C to +100 °C (-4 °F to 212 °F), 0 %RH to 100 %RH non-condensing
Dimensions:	<ul style="list-style-type: none"> • Body: 7.8 in x 1.62 in dia. (198 mm x 41 mm dia.) • Hook ID: 0.625 in (16 mm) • Cable Length: 30 in (760 mm)
Probe Lengths	<ul style="list-style-type: none"> • RFOT-FR: 1.75 in (45 mm), Tip Diameter: 0.063 in (1.6 mm) Tip Length: 1.25 in (32 mm) • RFOT-4-TD: 4.00 in (102 mm), Tip Diameter: 0.125 in (3.2 mm), Tip Length: 3.50 in (89 mm) • RFOT-4: 4.00 in (102 mm), Tip Diameter: 0.188 in (4.8 mm), Tip Length: Full • RFOT-7: 7.00 in (177 mm), Tip Diameter: 0.188 in (4.8 mm), Tip Length: Full • RFOT-12: 12.00 in (305 mm), Tip Diameter: 0.188 in (4.8 mm), Tip Length: Full
Weight:	8.8 oz (250 g)
Material:	<ul style="list-style-type: none"> • Body: Radel R-5100 • Cable Jacket: Silicone Polyurethane
Approvals:	US (FCC), CA (IC), CE

ORDERING INFORMATION

MODEL	PART NUMBER	DESCRIPTION
RFOT	902143-00 = RFOT-FR 902144-00 = RFOT-4 902145-00 = RFOT-4-TD 902146-00 = RFOT-7 902147-00 = RFOT-12	Temperature Data Logger
RFC1000	901383-00	Wireless RF transceiver/repeater. USB to mini USB adapter & power supply included.
RFC1000-CE	901388-00	Wireless RF transceiver/repeater, CE approved for Europe. USB to mini USB adapter & power supply included.
RFC1000-IP69K	901389-00	Wireless RF transceiver/repeater, splash proof with an IP69K rating. USB to mini USB adapter included.
TLH-5903	901748-00	Replacement battery for RFOT

Countries approved for use, purchase and distribution of the RFOT:

Australia, Austria, Belgium, Bulgaria, Canada, Chile, Columbia, Croatia, Cyprus, Czech Republic, Denmark, Ecuador, Estonia, Finland, France, Germany, Greece, Honduras, Hungary, Iceland, Ireland, Israel, Japan, Latvia, Liechtenstein, Lithuania, Luxembourg, Malta, Mexico, New Zealand, Norway, Peru, Poland, Portugal, Romania, Saudi Arabia, Singapore, Slovakia, Slovenia, South Africa, Spain, Sweden, Switzerland, Thailand, The Netherlands, Turkey, United Kingdom, United States, Venezuela, Vietnam