

SPECIFICATIONS

Specifications are subject to change without notice. Specific warranty remedy limitations apply.

TEMPERATURE*	
Probe Temperature Range	-50 °C to +200 °C (-58 °F to +392 °F)
Resolution	0.01 °C (0.018 °F)
Probe Calibrated Accuracy	±0.1 °C (14 °F to 212 °F / -10 °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)	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)	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

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

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

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
Operating System Compatibility	Windows XP SP3 or later
Software Compatibility	Standard Software version 2.00.72 or later Secure Software version 2.03.06 or later
Operating Environment	-20 °C to +100 °C (-4 °F to 212 °F) 0 %RH to 100 %RH non-condensing
Dimensions	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	• 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
Material	Body: Radel R-5100 Cable Jacket: Silicone Polyurethane
Weight	8.8 oz (250 g)
Approvals	US (FCC), CA (IC), CE

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.

Ordering Information

RFOT	PN 902143-00 = RFOT-FR PN 902144-00 = RFOT-4 PN 902145-00 = RFOT-4-TD PN 902146-00 = RFOT-7 PN 902147-00 = RFOT-12	Wireless Temperature Data Logger
RFC1000	PN 901383-00	Wireless RF receiver/repeater. USB to mini USB adapter & power supply included
RFC1000-CE	PN 901338-00	Wireless RF transceiver/repeater, CE approved for Europe. USB to mini USB adapter & power supply included
RFC1000-IP69K	PN 901389-00	Wireless RF transceiver/repeater, splash proof with an IP69K rating. USB to mini USB adapter included
TLH-5903	PN 901748-00	Replacement battery for RFOT

Countries approved for use, purchase and distribution of the RFOT: Australia, Austria, Belgium, Bulgaria, Canada, Chile, China, Colombia, 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