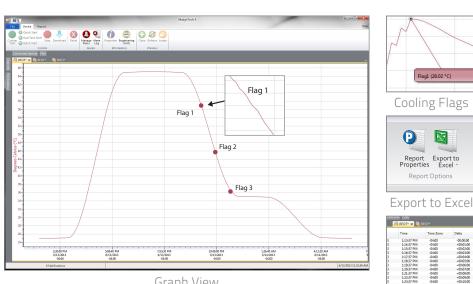


RFOT Wireless Meat Temperature Data Logger

MadgeTech's RFOT is the most advanced wireless temperature data logger in the meat industry today. The RFOT's rugged design, equipped with a flexible piercing probe allows it to be used in the harshest environments. It is perfectly suited for smoke houses, ovens and other cooking processes up to 212 °F (100 °C) as well as refrigerators and freezers down to -4 °F (-20 °C). It is completely splash proof and can with-stand wash down cycles. This state-of-the-art device records and transmits internal product temperature readings back to a central computer for instant realtime monitoring.

The RFOT never needs to be connected to a computer as it has been designed for two way wireless communication. All communication can be performed directly from a central PC. In addition to wirelessly transmitting data, the RFOT also stores each reading to internal memory for backup. This back up data may be retrieved wirelessly at a later time.

MadgeTech's easy to use software features user programmable critical control points, called "cooling flags" to assist in compliance with USDA Appendix B. The "cooling flags" are automatically annotated on the graph and tabular data views. The summary tab provides the cool down duration between each critical control point. The data can also be automatically exported to Excel® for further calculations.



MadgeTech 4 Software Features

Graph View

• Multiple graph overlay

Zoom in/zoom out

• Lethality equations (F0, PU)

• Digital calibration

Statistics

- Mean Kinetic Temperature
 - Full time zone support
- Data annotation
- Min./Max./Average lines
- Summary view



Features

- Wireless 2 Way Communication
- Splash proof (IP67)
- Real-time Operation
- Battery Life Indicator
- Programmable Start Time
- Memory Wrap Around
- Field Upgradeable Firmware

Benefits

- No Wiring
- Fast Installation
- Minimal Long-Term Maintenance
- Long-Term Field Deployment

Applications

- Meat Processing
- Meat Storage
- Smoke Houses
- HACCP Compliance
- Complying with USDA Regulations
- Food Process Monitoring

iny device 🔹	Connected
	At a time
	Connected
en conditions are met, do	the following:

-04:00 -04:00 -04:00 -04:00 -04:00 -04:00 -04:00 -04:00 -04:00 -04:00 -04:00 -04:00

Tabular Data View

Per A

Automation

SPECIFICATIONS

Specifications are subject to change without notice. Specific warranty remedy limitations apply. Call (603) 456-2011 or go to madgetech.com for details.

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 2.45 GHz IEEE 802.15.4 ultra-low power wireless **RF Frequency** transceiver with fully bi-directional communication Band ISM band 2.405-2.48 GHz **Maximum Output** +0 dBm typical (RFOT), 20 dBm maximum (RFC1000) Power **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

For Quantity Discounts call (603) 456-2011 or email sales@madgetech.com

