

OM-CP-RFOT-A Wireless Meat Temperature Data Logger with External Probe



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

Omega's OM-CP-RFOT-A is the most advanced wireless temperature data logger in the meat industry today. The OM-CP-RFOT-A'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 real-time monitoring.

The OM-CP-RFOT-A 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 OM-CP-RFOT-A also stores each reading to internal memory for backup. This back up data may be retrieved wirelessly at a later time.

Omega'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.



OM-CP-RFOT-A Specifications

TEMPERATURE	
Probe Temperature Range	-50 °C to +200 °C (-58 °F to +392 °F)
Resolution	0.01 °C (0.018 °F)
Calibrated Accuracy	±0.1 °C at 0 °C to 100 °C (±0.18 °F at 32 °F to 212 °F) ±0.5 °C (±0.9 °F) 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 2.405-2.475 GHz. Operation (channels 11 through 25) @ 250 kbps
Maximum Output Power	+0 dBm typical
Receiver Sensitivity	-95 dBm typical
Wireless Interface	OM-CP-RFC1000-EXT OM-CP-RFC1000-EXT-EUR OM-CP-RFC1000-IP69K
Transmission Distance	2000 ft max. outdoors (line of sight unobstructed) 500 ft max. indoors (typical urban)

General Specifications

GENERAL	
Reading Rate	One reading every two seconds to one every 24 hours
Memory	21,504 readings; software configurable memory wrap
Wrap Around	Yes
Start Modes	Immediate start & delayed start
Calibration	Digital calibration through software
Calibration Date	Automatically recorded within device
Battery Type	3.6 V 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 (interface cable required); 115,200 baud
Supported Software	Windows XP SP3/7/8/10
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) Probe: 4 in x 0.188 in (102 mm x 4.8 mm dia.) Cable Length: 30 in (760 mm)
Weight	8.8 oz (250 g)
Material	Body: Radel R-5100 Cable Jacket: Silicone Polyurethane
Approvals	CE, US (FCC), CA (IC)

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.

To Order	
P/N	Description
OM-CP-RFOT-A	Temperature Data Logger with 4 inch Probe
OM-CP-RFC1000-EXT	Wireless RF transceiver/repeater. USB to mini USB adapter & power supply included.
OM-CP-RFC1000-EXT-EUR	Wireless RF transceiver/repeater, CE approved for Europe. USB to mini USB adapter & power supply included.
OM-CP-RFC1000-IP69K	Wireless RF transceiver/repeater, splash proof with an IP69K rating. USB to mini USB adapter included.
OM-CP-BAT109	Replacement battery for RFOT