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User's Guide

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OM-CP-THERMALERT
OM-CP-THERMALERT-P
OM-CP-THERMALERT-RH

OM-CP-THERMALERT SERIES

Precision Wireless Temperature Data Loggers

Product Overview

The OM-CP-THERMALERT series of wireless temperature monitoring and alarm system data loggers. The OM-CP-THERMALERT is the first in this series of Omega data loggers, followed by the OM-CP-THERMALERT-P is equipped with a precision RTD probe that can be mounted inside of an ethylene gycol bottle, available in 3 different sizes, 30mL, 60mL and 150mL. The OM-CP-THERMALERT-RH is a wireless humidity monitoring and alarm system.

OM-CP-THERMALERT

OM-CP-THERMALERT-P

OM-CP-THERMALERT-RH

Glycol bottles pictured above, are to be used with the OM-CP-THERMALERT-P. Available in three sizes, 30mL, 60mL and 150mL.

Questions? For more details and instructions, please refer to the rest of this guide, visit us online at www.omega.com or contact us for support at 1 (800) 872-9436.

Quick Start Steps

Product Operation *(Wireless)*

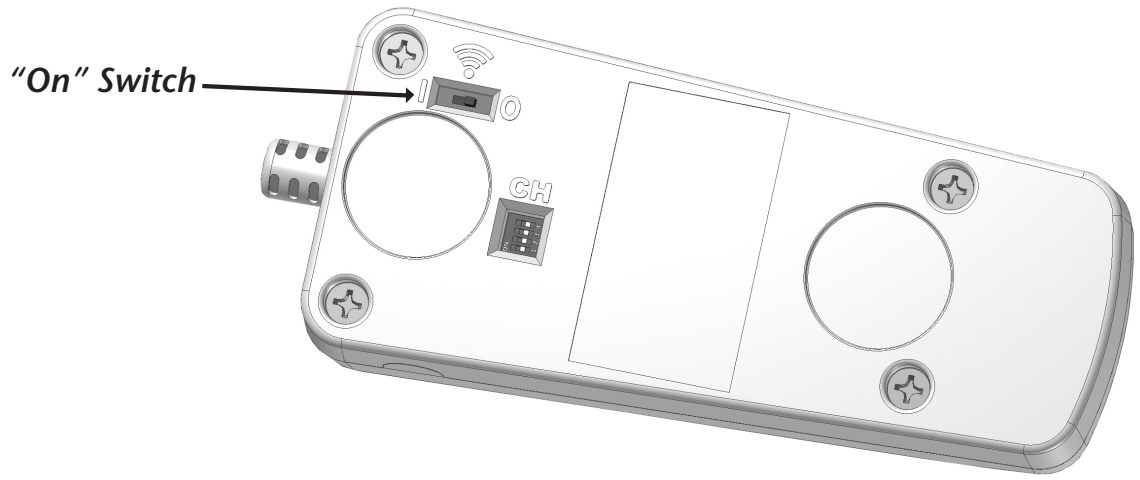
1. Install the Omega data logging Software and USB Drivers onto a PC.

2. Plug an OM-CP-RFC1000-EXT *(sold separately)* into a USB port on the base station computer. *(For transmissions over distances longer than 500' indoors line of sight (2,000' outdoors), plug additional OM-CP-RFC1000-EXTs into electrical outlets in between the base station computer and the OM-CP-THERMALERT device.)* The red LED will illuminate on the OM-CP-RFC1000-EXT to signify that it has been connected correctly.

3. Flip the black switch on the back of the OM-CP-THERMALERT to the "On" position. (*0 is "OFF", 1 is "ON". See diagram below.*)

4. Launch the Omega data logging software, the OM-CP-THERMALERT icon will automatically appear in the connected devices list, showing that the device has been recognized. (*If the wireless device is not on the network, it will only appear if the "only show claimed wireless devices" is unchecked. The checkbox acts as a filter so you have the option of seeing the devices that are connected to your computers OM-CP-RFC1000-EXT.)*

   Select the logger in the connected devices list, and click the "claim" button, wait for the device to finish updating. Select the "Realtime Start" method from the device tab and choose a desired reading rate from the drop-down menu and click "start". (*To set up or choose an Alarm for a Realtime Session, select the alarm rules tab (Refer to the Alarm Settings section).*



Still need help? For more troubleshooting tips and information, refer to the built in help section visit us online at www.omega.com or contact us for support at 1 (800) 872-9436.

Additional Features and Operation

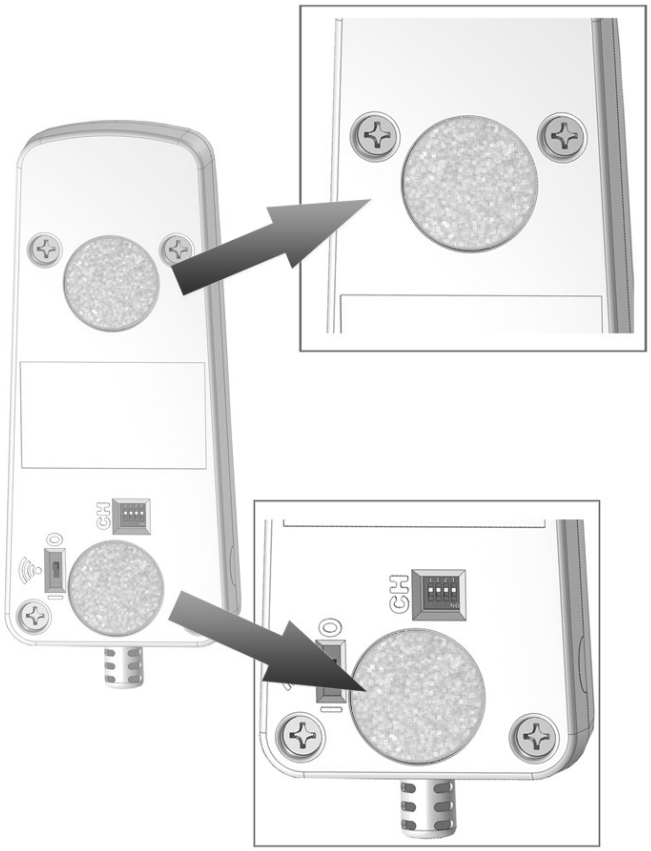
Alarm Settings/Rules

1. To create an alarm rule, select Manage Rules in the device tab of the software.
2. Select New and enter a Rule name. Enter alarm the parameters using the drop down menus and selection circles.
3. Select OK and choose the alarm to enable. The alarm bell is green when enabled and red when disabled.

Please refer to the Help file in the Omega software for more information regarding alarm settings

Mounting Instructions

Located on the back of the logger are two velcro mounting components. This allows easy access to remove the logger if it needs to be relocated.



Troubleshooting Tips

Why are my devices not appearing?
If your OM-CP-THERMALERT isn't showing up in the Connected devices panel, or you receive an error message while using the OM-CP-THERMALERT, try the following:

• Check that your OM-CP-RFC1000-EXT is properly connected. For more information, see Troubleshooting Interface Cable problems *(below).*
• Ensure that the battery is not discharged.
• Ensure that no other Omega software is running in the background
• Ensure that you are using Omega data logger software.
• Ensure that the Connected Devices panel is large enough to display devices. This can be verified by positioning the cursor on the edge of the Connected Devices panel until the resize cursor appears, then dragging the edge of the panel to resize it.

Troubleshooting Interface Cable problems
Check that the software recognizes your OM-CP-RFC1000-EXT wireless receiver
If your device is not appearing in the Connected Devices list, it may be that the OM-CP-RFC1000-EXT is not properly connected.
1. In the software, click the File Button, then click Options.
2. In the Options window, click Communications.
3. The Detected Interfaces box will list all of the available communication interfaces. If your OM-CP-RFC1000-EXT is listed there, then the software has correctly recognized and is ready to use it.

Check that Windows recognizes your OM-CP-RFC1000-EXT wireless receiver
If the software does not recognize your OM-CP-RFC1000-EXT, there may be a problem with Windows or the USB drivers.
1. In Windows, click Start, right-click Computer and choose Properties or you can press Windows+Break as a keyboard shortcut.
2. Click Device Manager in the left hand column.
3. Double click Universal Serial Bus Controllers.
4. Look for an entry for Datalogger Interface.
5. If the entry is present, and there are no warning messages or icons, then windows has correctly recognized your OM-CP-RFC1000-EXT.
6. If the entry is not present, or has an exclamation point icon next to it, you may need to install the USB drivers. These are available on your software flash drive.

Ensure that the USB end of the OM-CP-RFC1000-EXT is securely connected to the computer
1. Locate the USB-A plug of your OM-CP-RFC1000-EXT.
2. If the interface cable is connected to your PC, unplug it.
3. Wait ten seconds, then reinsert it.
4. Check to make sure that the red LED is lit, indicating a successful connection.

Product Maintenance

Battery Replacement

Materials: OM-CP-BAT109, #2 Phillips Head Screw Driver

1. On the back of the enclosure, using a Phillips head screw driver, unscrew the back of the data logger.
2. Remove the battery by pulling it from the compartment.
3. Install the new battery, taking note of the polarity, verify that it is secure.
4. Close up the device and secure the screws back into place.
   Note: Be sure not to over tighten the screw or strip the threads.

Recalibration

Standard recalibration for the OM-CP-THERMALERT is one point at 25°C. For the OM-CP-THERMALERT-P standard recalibration is two points -10°C and +70°C. The OM-CP-THERMALERT-RH has two standard calibration types, one point for temperature at 25°C, the other is a two point calibration for humidity, 25°C and 75°C. Recalibration is recommended annually for any Omega data logger; a reminder is automatically displayed in the software when the device is due.

OM-CP-THERMALERT General Specifications

Description	OM-CP-THERMALERT
Reading Rate	One reading ever two seconds to one every 24 hours
Memory	30,000 readings; software configurable memory wrap
Wrap Around	Yes
Start Modes	Immediate start or delay start up to 18 months
Calibration	Digital calibration through software
Calibration Date	Automatically recorded within the device
Battery Type	3.6V lithium battery included; user replaceable
Battery Life	2 years typical
Data Format	Date and time stamped °C, °F, °K and °R
Time Accuracy	±1 minute / month (at 25°C)
Computer Interface	OM-CP-RFC1000-EXT required
Software	XP SP3/Vista/Windows 7/Windows 8
Operating Environment	-20°C to +80°C (-4°F to +176°F), 0%RH to 95%RH non-condensing
Dimensions	2.2” x 5.25” x 1.3” (55mm x 133mm x 33mm)
Enclosure Material	ABS Plastic
Approvals	CE

Temperature

Temperature Range	-20°C to +80°C (-4°F to +176°F)
Resolution	0.01°C (0.018°F)
Calibrated Accuracy	±0.5°C/±0.9°F (0°C to +50°C/32°F to 122°F)

Wireless

RF Frequency	2.45 GHz IEEE 802.15.4 ultra-low power wireless transeiver with fully bi-directional communication
Band	ISM band 2.405-2.48 GHz
Maximum Output Power	+0dBm typical
Receiver Sensitivity (OM-CP-RFC1000-EXT)	-95dBm typical
Range	2000’ max. outdoors (line of sight unobstructed) 500’ max. indoors (typical urban)

Battery Warning

WARNING: DO NOT RECHARGE, DISASSEMBLE, HEAT ABOVE 125°C (257°F), INCINERATE OR EXPOSE CONTENTS TO WATER. VENT, RUPTURE OR EXPLOSION MAY RESULT AND CAUSE SEVERE BURNS. DISCARD USED BATTERY PROMPTLY, KEEP OUT OF REACH OF CHILDREN.

OM-CP-THERMALERT-P General Specifications

Description	OM-CP-THERMALERT-P
Reading Rate	One reading ever two seconds to one every 24 hours
Memory	30,000 readings; software configurable memory wrap
Wrap Around	Yes
Start Modes	Immediate start
Calibration	Digital calibration through software
Calibration Date	Automatically recorded within the device
Battery Type	3.6V lithium battery included; user replaceable
Battery Life	2 years typical
Data Format	Date and time stamped °C, °F, °K and °R
Time Accuracy	±1 minute / month (at 25°C)
Computer Interface	OM-CP-RFC1000-EXT required
Software	XP SP3/Vista/Windows 7/Windows 8
Operating Environment	-20°C to +80°C (-4°F to +176°F), 0%RH to 95%RH non-condensing
Dimensions	Data Logger: 2.2" x 5.25" x 1.3" (55mm x 133mm x 33mm) Wire: 9' Probe: 3/16" dia x 4.5" Glycol bottle: 30mL: 2.5" x 1.5" x 1.5" (63mm x 38mm x 38mm) 60mL: 3.3" x 1.6" x 1.6" (84mm x 41mm x 41mm) 150mL: 5.7" x 2.3" x 2.3" (145mm x 58mm x 58mm)
Enclosure Material	ABS Plastic
Approvals	CE

Temperature

Probe Temperature Range	-200°C to +260°C (-328°F to +500°F)
Lead Wire Range	-200°C to +200°C (-328°F to +392°F)
Glycol Bottle (*optional*) Range	-50°C to +80°C (-58°F to +176°F)
Resolution	0.01°C (0.018°F)
Probe Calibrated Accuracy	±0.1°C/±0.18°F (-20°C to +80°C/-4°F to +176°F) ±0.5°C/±0.9°F (*outside of specified range*)

Wireless

RF Frequency	2.45 GHz IEEE 802.15.4 ultra-low power wireless transeiver with fully bi-directional communication
Band	ISM band 2.405-2.48 GHz
Maximum Output Power	+0dBm typical
Receiver Sensitivity (OM-CP-RFC1000-EXT)	-95dBm typical
Range	2000’ max. outdoors (line of sight unobstructed) 500’ max. indoors (typical urban)

Battery Warning

WARNING: DO NOT RECHARGE, DISASSEMBLE, HEAT ABOVE 125°C (257°F), INCINERATE OR EXPOSE CONTENTS TO WATER. VENT, RUPTURE OR EXPLOSION MAY RESULT AND CAUSE SEVERE BURNS. DISCARD USED BATTERY PROMPTLY, KEEP OUT OF REACH OF CHILDREN.

OM-CP-THERMALERT-RH General Specifications

Description	OM-CP-THERMALERT-RH
Reading Rate	One reading ever two seconds to one every 24 hours
Memory	15,000 readings per channel; software configurable memory wrap
Wrap Around	Yes
Start Modes	Immediate start or delay start up to 18 months
Calibration	Digital calibration through software
Calibration Date	Automatically recorded within the device
Battery Type	3.6V lithium battery included; user replaceable
Battery Life	2 years typical
Data Format	Date and time stamped °C, °F, °K and °R
Time Accuracy	±1 minute / month (at 25°C)
Computer Interface	OM-CP-RFC1000-EXT required
Software	XP SP3/Vista/Windows 7/Windows 8
Operating Environment	-20°C to +80°C (-4°F to +176°F), 0%RH to 95%RH non-condensing
Dimensions	2.2” x 5.25” x 1.3” (55mm x 133mm x 33mm)
Enclosure Material	ABS Plastic
Approvals	CE

Temperature

Temperature Range	-20°C to +80°C (-4°F to +176°F)
Temperature Resolution	0.01°C (0.018°F)
Temperature Calibrated Accuracy	±0.5°C/±0.9°F (0°C to +50°C/32°F to 122°F)

Humidity

Humidity Range	0%RH to 95%RH non-condensing
Humidity Resolution	0.1%RH
Humidity Calibrated Accuracy	±3.0%RH (±2%RH typical at 25°C/77°F)

Wireless

RF Frequency	2.45 GHz IEEE 802.15.4 ultra-low power wireless transeiver with fully bi-directional communication
Band	ISM band 2.405-2.48 GHz
Maximum Output Power	+0dBm typical
Receiver Sensitivity (OM-CP-RFC1000-EXT)	-95dBm typical
Range	2000’ max. outdoors (line of sight unobstructed) 500’ max. indoors (typical urban)

Battery Warning

WARNING: DO NOT RECHARGE, DISASSEMBLE, HEAT ABOVE 125°C (257°F), INCINERATE OR EXPOSE CONTENTS TO WATER. VENT, RUPTURE OR EXPLOSION MAY RESULT AND CAUSE SEVERE BURNS. DISCARD USED BATTERY PROMPTLY, KEEP OUT OF REACH OF CHILDREN.

OM-CP-RFC1000-EXT

Wireless Transceiver

Product Overview

The OM-CP-RFC1000-EXT, a high powered transceiver that has a substantially long transmission range, providing enhanced performance in occluded environments (ovens, refrigerators, etc.). The OM-CP-RFC1000-EXT also features an external antenna, allowing more flexibility with mounting positions in both orientation and proximity to metal walls. The device may be used as a repeater, or directly plugged into the Windows PC.

Transmission Distance
The OM-CP-RFC1000-EXT transmits to other OM-CP-RFC1000-EXTs up to 4000 feet maximum typical outdoors/line of sight, 1000 feet maximum typical indoors/urban. The OM-CP-RFC1000-EXT transmits to data loggers up to 2000 feet maximum typical outdoors/line of sight, 500 feet maximum typical indoors/urban. The OM-CP-RFC1000-EXT can connect to a maximum of 64 data loggers. The OM-CP-RFC1000-EXT transmits on a frequency of 2.405GHz - 2.475 GHz.

Operating Environment
The OM-CP-RFC1000-EXT is rated for use in an environment with temperatures from -20°C to 85°C and a humidity range of 0% to 95% RH non-condensing. The OM-CP-RFC1000-EXT is rated IP40 and is protected against solids that are greater than 1mm in size. This device is not water resistant.

LEDs
The red LED indicates that the device has power. The green LED will blink when communicating with other Omega devices.

Installation Guide

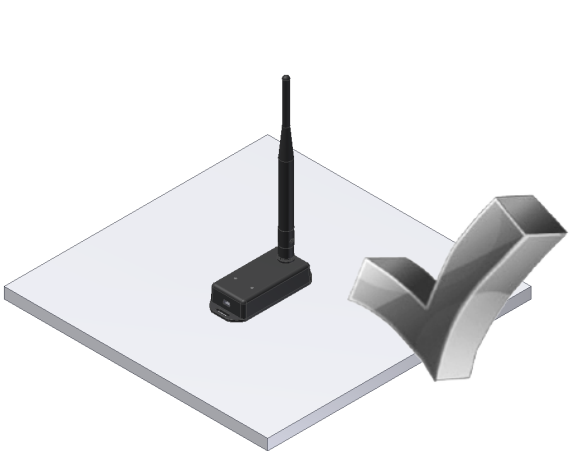
Installing the Omega Data Logger Software
Insert the Omega Software Flash Drive into an open USB port on a Windows PC. If the autorun does not appear, locate the drive on the computer and double click on **Autorun.exe**. Follow the instructions provided in the Installation Wizard.

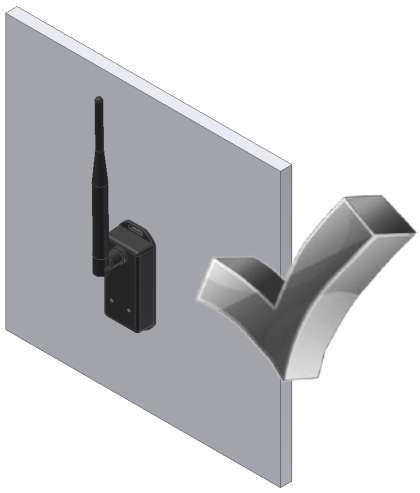
Deploying and Activating Devices

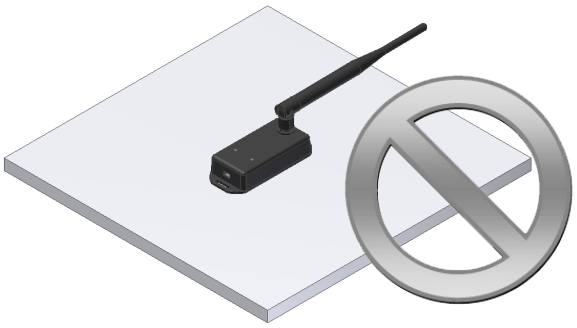
1. Plug the OM-CP-RFC1000-EXT into the USB port on the base station computer. *(Additional OM-CP-RFC1000-EXTs can be used as repeaters to transmit over greater distances)*
2. If using multiple OM-CP-RFC1000-EXTs plug each one into a wall outlet in the desired locations. *(If transmitting over a distance greater than 1000 feet indoors or 4000 feet outdoors or there are walls/obstacles/corners that need to be maneuvered around, set up additional OM-CP-RFC1000-EXTs as needed.)*
3. Verify that the data loggers are in wireless transmission mode. *(See Channel Programming steps above)* On a Windows PC, launch the Omega data logger software program. All active data loggers will be listed in the software showing that the device(s) are recognized.
4. To activate the data loggers, click on one to highlight, then click the **Claim** icon, and then click the **Start** icon. Do this for each logger in the list that needs to be activate.

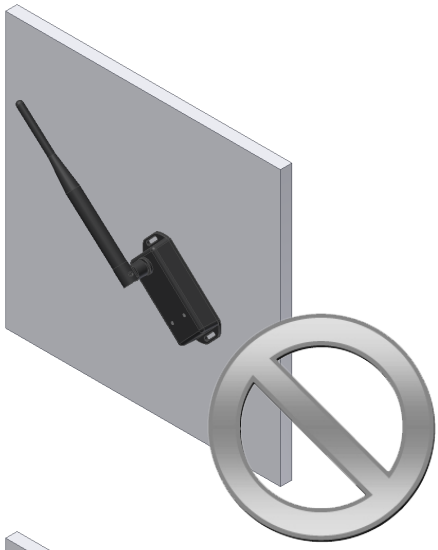
Mounting Instructions

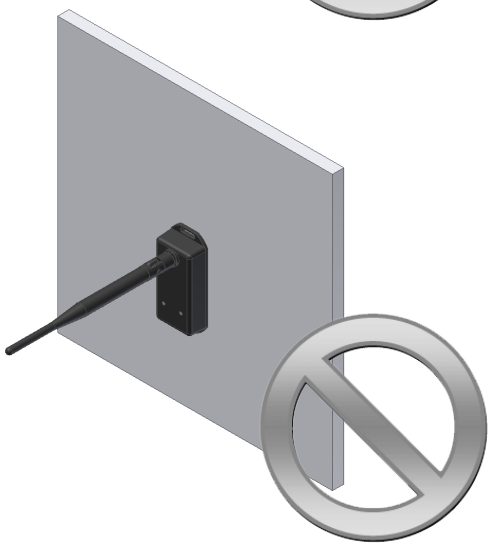
For best wireless performance, both the OM-CP-RFC1000-EXT and the Omega data loggers should be mounted in the same orientation. This usually means that the external antenna should be pointing straight up. The antenna can pivot to accommodate either a wall mount or a desk mount.











Troubleshooting Tips

Why are my devices not appearing?
If your OM-CP-THERMALERT isn't showing up in the Connected devices panel, or you receive an error message while using the OM-CP-THERMALERT, try the following:

• Check that your OM-CP-RFC1000-EXT is properly connected. For more information, see Troubleshooting Interface Cable problems *(below).*
• Ensure that the battery is not discharged.
• Ensure that no other Omega software is running in the background
• Ensure that you are using Omega data logger software.
• Ensure that the Connected Devices panel is large enough to display devices. This can be verified by positioning the cursor on the edge of the Connected Devices panel until the resize cursor appears, then dragging the edge of the panel to resize it.

Troubleshooting Interface Cable problems
Check that the software recognizes your OM-CP-RFC1000-EXT wireless receiver
If your device is not appearing in the Connected Devices list, it may be that the OM-CP-RFC1000-EXT is not properly connected.
1. In the software, click the File Button, then click Options.
2. In the Options window, click Communications.
3. The Detected Interfaces box will list all of the available communication interfaces. If your OM-CP-RFC1000-EXT is listed there, then the software has correctly recognized and is ready to use it.

Check that Windows recognizes your OM-CP-RFC1000-EXT wireless receiver
If the software does not recognize your OM-CP-RFC1000-EXT, there may be a problem with Windows or the USB drivers.
1. In Windows, click Start, right-click Computer and choose Properties or you can press Windows+Break as a keyboard shortcut.
2. Click Device Manager in the left hand column.
3. Double click Universal Serial Bus Controllers.
4. Look for an entry for Datalogger Interface.
5. If the entry is present, and there are no warning messages or icons, then windows has correctly recognized your OM-CP-RFC1000-EXT.
6. If the entry is not present, or has an exclamation point icon next to it, you may need to install the USB drivers. These are available on your software flash drive.

Ensure that the USB end of the OM-CP-RFC1000-EXT is securely connected to the computer
1. Locate the USB-A plug of your OM-CP-RFC1000-EXT.
2. If the interface cable is connected to your PC, unplug it.
3. Wait ten seconds, then reinsert it.
4. Check to make sure that the red LED is lit, indicating a successful connection.

OM-CP-RFC1000-EXT General Specifications

Interface Type	USB (to PC) / Wireless (to Data Logger)
Operating Environment	-20 to +85°C, 0 to 95%RH non-condensing
LED Indicators	Red & Green
Enclosure Materials	ABS Plastic (body), PVC Plastic (antenna)
Dimensions	Enclosure: 3.8” x 1.6” x 0.8” / Antenna: 7.2”
Approvals	FCC ID:OA3MRF24J40MC, IC#: 7693A-24J40MC
Transmission Distance (To other OM-CP-RFC1000-EXTs)	4000’ max. outdoor - line of sight unobstructed 1000’ max. indoors - typical urban environment
Transmission Distance (To data loggers)	2000’ max. outdoor - line of sight unobstructed 500’ max. indoors - typical urban
Maximum number of connected data loggers	64
Frequency	2.405GHz - 2.475GHz
Ingress Protection	IP40

Compliance Information

• "This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation."

• "To satisfy FCC RF Exposure requirements for mobile and base station transmission devices, a separation distance of 20cm or more should be maintained between the antenna of this device and persons during operation. To ensure compliance, operation at closer than this distance is not recommended. The antenna(s) used for this transmitter must not be co-located or operating in conjunction with any other antenna or transmitter."

• "This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes: (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement."

• "Under Industry Canada regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by Industry Canada. To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that necessary for successful communication.

Conformément à la réglementation d'Industrie Canada, le présent émetteur radio peut fonctionner avec une antenne d'un type et d'un gain maximal (ou inférieur) approuvé pour l'émetteur par Industrie Canada. Dans le but de réduire les risques de brouillage radioélectrique à l'intention des autres utilisateurs, il faut choisir le type d'antenne et son gain de sorte que la puissance isotrope rayonnée équivalente (p.i.r.e.) ne dépasse pas l'intensité nécessaire à l'établissement d'une communication satisfaisante."

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It is the policy of OMEGA Engineering, Inc. to comply with all worldwide safety and EMC/EMI regulations that apply. OMEGA is constantly pursuing certification of its products to the European New Approach Directives. OMEGA will add the CE mark to every appropriate device upon certification.

The information contained in this document is believed to be correct, but OMEGA accepts no liability for any errors it contains, and reserves the right to alter specifications without notice.

WARNING: These products are not designed for use in, and should not be used for, human applications.

MADE IN USA

WARRANTY/DISCLAIMER

OMEGA ENGINEERING, INC. warrants this unit to be free of defects in materials and workmanship for a period of **61 months** from date of purchase. OMEGA's WARRANTY adds an additional one (1) month grace period to the normal **five (5) year product warranty** to cover handling and shipping time. This ensures that OMEGA's customers receive maximum coverage on each product.

If the unit malfunctions, it must be returned to the factory for evaluation. OMEGA's Customer Service Department will issue an Authorized Return (AR) number immediately upon phone or written request. Upon examination by OMEGA, if the unit is found to be defective, it will be repaired or replaced at no charge. OMEGA's WARRANTY does not apply to defects resulting from any action of the purchaser, including but not limited to mishandling, improper interfacing, operation outside of design limits, improper repair, or unauthorized modification. This WARRANTY is VOID if the unit shows evidence of having been tampered with or shows evidence of having been damaged as a result of excessive corrosion; or current, heat, moisture or vibration; improper specification; misapplication; misuse or other operating conditions outside of OMEGA's control. Components in which wear is not warranted, include but are not limited to contact points, fuses, and triacs.

OMEGA is pleased to offer suggestions on the use of its various products. However, OMEGA neither assumes responsibility for any omissions or errors nor assumes liability for any damages that result from the use of its products in accordance with information provided by OMEGA, either verbal or written. OMEGA warrants only that the parts manufactured by the company will be as specified and free of defects. OMEGA MAKES NO OTHER WARRANTIES OR REPRESENTATIONS OF ANY KIND WHATSOEVER, EXPRESSED OR IMPLIED, EXCEPT THAT OF TITLE, AND ALL IMPLIED WARRANTIES INCLUDING ANY WARRANTY OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE HEREBY DISCLAIMED. LIMITATION OF LIABILITY: The remedies of purchaser set forth herein are exclusive, and the total liability of OMEGA with respect to this order, whether based on contract, warranty, negligence, indemnification, strict liability or otherwise, shall not exceed the purchase price of the component upon which liability is based. In no event shall OMEGA be liable for consequential, incidental or special damages.

CONDITIONS: Equipment sold by OMEGA is not intended to be used, nor shall it be used: (1) as a "Basic Component" under 10 CFR 21 (NRC), used in or with any nuclear installation or activity; or (2) in medical applications or used on humans. Should any Product(s) be used in or with any nuclear installation or activity, medical application, used on humans, or misused in any way, OMEGA assumes no responsibility as set forth in our basic WARRANTY/DISCLAIMER language, and, additionally, purchaser will indemnify OMEGA and hold OMEGA harmless from any liability or damage whatsoever arising out of the use of the Product(s) in such a manner.

RETURN REQUESTS / INQUIRIES

Direct all warranty and repair requests/inquiries to the OMEGA Customer Service Department. BEFORE RETURNING ANY PRODUCT(S) TO OMEGA, PURCHASER MUST OBTAIN AN AUTHORIZED RETURN (AR) NUMBER FROM OMEGA'S CUSTOMER SERVICE DEPARTMENT (IN ORDER TO AVOID PROCESSING DELAYS). The assigned AR number should then be marked on the outside of the return package and on any correspondence.

The purchaser is responsible for shipping charges, freight, insurance and proper packaging to prevent breakage in transit.

FOR **WARRANTY** RETURNS, please have the following information available BEFORE contacting OMEGA:

1. Purchase Order number under which the product was PURCHASED,
2. Model and serial number of the product under warranty, and
3. Repair instructions and/or specific problems relative to the product.

FOR **NON-WARRANTY** REPAIRS, consult OMEGA for current repair charges. Have the following information available BEFORE contacting OMEGA:

1. Purchase Order number to cover the COST of the repair,
2. Model and serial number of the product, and
3. Repair instructions and/or specific problems relative to the product.

OMEGA's policy is to make running changes, not model changes, whenever an improvement is possible. This affords our customers the latest in technology and engineering.

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