Quick Start Guide
00825-0300-4248, Rev BD
November 2024

Rosemount™ 248 Wireless Temperature Transmitter

ROSEMOUNT™

EMERSON

Safety messages

⚠ WARNING

Failure to follow these installation guidelines could result in death or serious injury.

Ensure only qualified personnel perform the installation.

Explosions

Explosions could result in death or serious injury.

Installation of device in an explosive environment must be in accordance with appropriate local, national, and international standards, codes, and practices.

Review the Hazardous Locations Certifications for any restrictions associated with a safe installation.

Process leaks

Process leaks could result in death or serious injury.

Before applying pressure, install and tighten thermowells and sensors.

Do not remove the thermowell while in operation.

Electrical shock

Electrical shock could cause death or serious injury.

Avoid contact with the leads and terminals. High voltage that may be present on leads can cause electrical shock.

Unless marked, the conduit/cable entries in the housing use a ½–14 NPT thread form. Entries marked M20 are M20 × 1.5 thread form. On devices with multiple conduit entries, all entries will have the same thread form. Only use plugs, adapters, glands, or conduit with a compatible thread form when closing these entries.

When installing in a hazardous location, use only appropriately listed or Ex-certified plugs, glands, or adapters in cable/conduit entries.

This device complies with Part 15 of the Federal Communication Commission (FCC) Rules. Operation is subject to the following conditions:

This device may not cause harmful interference.

This device must accept any interference received, including interference that may cause undesired operation.

This device must be installed to ensure a minimum antenna separation distance of 8 in. (20 cm) from all persons.

The power module may be replaced in a hazardous area. The power module has surface resistivity greater than one gigaohm and must be properly installed in the wireless device enclosure. Care must be taken during transportation to and from the point of installation to prevent electrostatic charge build-up.

Physical access

Unauthorized personnel may potentially cause significant damage to and/or misconfiguration of end users' equipment. This could be intentional or unintentional and needs to be protected against.

Physical security is an important part of any security program and fundamental in protecting your system. Restrict physical access by unauthorized personnel to protect end users' assets. This is true for all systems used within the facility.

NOTICE

Power module considerations (Green Power Module, model number 701PGNKF)

The green power module with the wireless unit contains one “D” size primary lithium-thionyl chloride battery (model number 701PGNKF). Each battery contains approximately 5.0 grams of lithium. Under normal conditions, the battery materials are self-contained and are not reactive as long as the batteries and the pack integrity are maintained. Care should be taken to prevent thermal, electrical or mechanical damage. Contacts should be protected to prevent premature discharge.

Battery hazards remain when cells are discharged.

Power modules must be stored in a clean and dry area. For maximum battery life, storage temperature must not exceed 86 °F (30 °C).

Shipping considerations for wireless products (lithium batteries: Green Power Module, model number 701PGNKF)

The unit was shipped without the power module installed. Prior to re-shipment, ensure that the power module has been removed.

Each power module contains one “D” size primary lithium battery. Primary lithium batteries are regulated in transportation by the U.S. Department of Transportation, and are also covered by IATA (International Air Transport Association), ICAO (International Civil Aviation Organization), and ARD (European Ground Transportation of Dangerous Goods). It is the responsibility of the shipper to ensure compliance with these or any other local requirements. Consult current regulations and requirements before shipping.

⚠ WARNING

Refer to the *Product certifications* section of this Quick Start Guide documentation when using the RFID tag (option code Y3) for required installation conditions.

Contents

1 About this guide

This guide provides basic guidelines to install the Rosemount 248 Wireless Temperature Transmitter. It does not provide instructions for detailed configuration, diagnostics, maintenance, service, troubleshooting, or installations. Refer to the Rosemount 248 Temperature Transmitter Reference Manual for more instruction. The manual and this guide are also available electronically at Emerson.com/Rosemount.

2 Wireless considerations

2.1 Power up sequence

Emerson recommends installing the Rosemount 248 Wireless Transmitter and all other devices only after the Wireless Gateway has been installed and is functioning properly. Wireless devices must also be powered up in order of proximity from the Gateway, beginning with the closest. This will result in a simpler and faster network installation. Enable **Active Advertising** on the Gateway to ensure new devices join the network faster. Emerson Wireless 1410S Gateway and 781S Smart Antenna

Related information

Emerson Wireless 1410S Gateway and 781S Smart Antenna

2.2 Antenna position

The internal antenna is designed for multiple mounting orientations. Emerson recommends mounting the transmitter according to best practices for your temperature measurement application. The transmitter must be approximately 3 ft. (1 m) from any large structure or building to allow clear communication to other devices.

2.3 Field Communicator connections

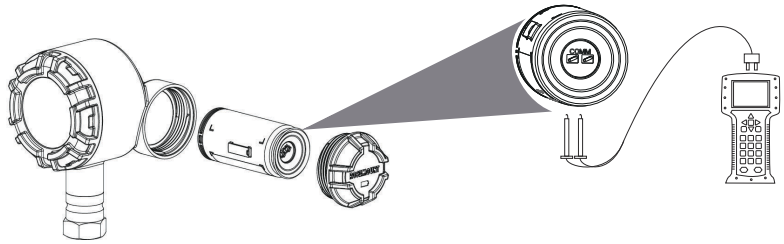
The power module must be installed in the device for the Field Communicator to interface with the transmitter. The Field Communicator connections are located on the Green Power Module.

To communicate with the transmitter:

1. Remove the power module cover. This will expose the HART® communication terminals located on the Green Power Module.
2. Connect the Field Communicator leads to the COMM port connections on the Green Power Module.

This transmitter uses the Green Power Module; Order Model number: 701PGNKF. The power module is keyed and can only be inserted in one orientation. Field communication with this device requires a HART-based Field Communicator. Refer to Figure 2-1 for instructions on connecting the Field Communicator to the transmitter.

Figure 2-1: Field Communicator Connection



3 Physical installation

Choose the installation sequence that corresponds to the mounting configuration.

After installation of the transmitter, ensure that the conduit entry has an installed conduit fitting or cable gland with approved thread sealant.

3.1 Direct mount

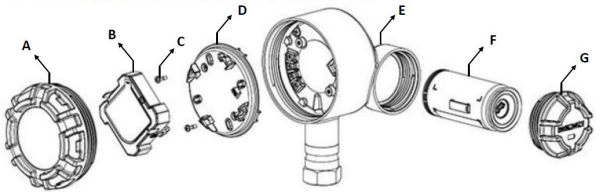
The direct mount installation must not be used when installing with a Swagelok® fitting.

Procedure

1. Remove the transmitter enclosure cover.
2. Remove the LCD display (if applicable).
3. Loosen the captive screws and remove LCD display adapter plate (if applicable).
4. Attach the sensor to the transmitter housing using the threaded conduit entry.

Note
Ensure that an approved thread sealant is used on all connections.

Figure 3-1: Exploded View of LCD Display Assembly

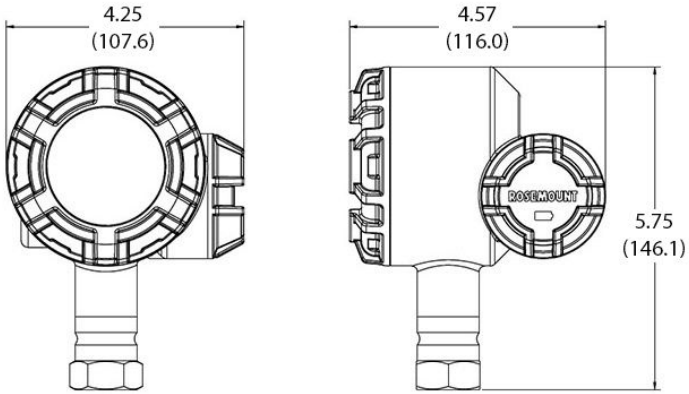


A. Housing cover
B. LCD meter
C. Terminal screws
D. LCD adapter plate
E. Housing
F. Green power module
G. Power module cover

5. Attach the sensor wiring to the terminals as indicated on Figure 5-1.

6. Reattach and secure LCD display adapter plate to 5 in.-lb. of torque (if applicable).
7. Reattach the LCD display (if applicable).
8. Reattach and tighten the transmitter enclosure cover.
9. Remove the power module cover.
10. Connect the Green Power Module.
11. Reattach and tighten the power module cover.
12. Always ensure a proper seal by installing the electronics housing cover(s) so that polymer contacts polymer (i.e. no O-ring visible). Emerson recommends using Rosemount O-rings.
13. Provide 1.75 in. (45 mm) of clearance for units without an LCD display. Provide 3 in. (76 mm) of clearance for units with an LCD display for cover removal.

Figure 3-2: Direct Mount



Note
Dimensions are in inches (millimeters).
Wireless devices must be powered up in order of proximity from the Gateway, beginning with the closest device to the Gateway. This will result in a simpler and faster network installation.

3.2 Remote mount

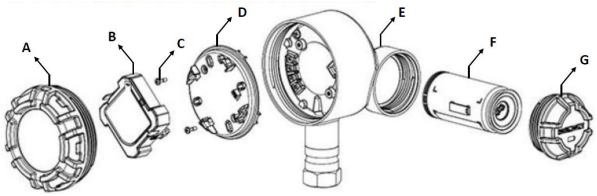
Procedure

1. Remove the transmitter enclosure cover.
2. Remove the LCD display (if applicable).

3. Loosen the captive screws and remove LCD display adapter plate (if applicable).
4. Run wiring (and conduit, if necessary) from the sensor to the transmitter.

Note
Use a ½-in. NPT when mating conduit to the transmitter.

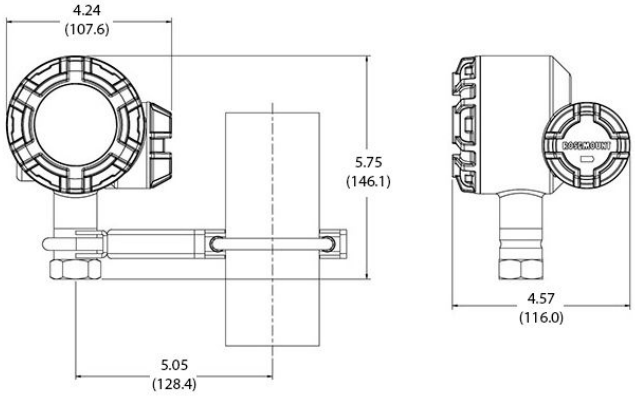
Figure 3-3: Exploded View of LCD Display Assembly



A. Housing cover
B. LCD meter
C. Terminal screws
D. LCD adapter plate
E. Housing
F. Green power module
G. Power module cover

5. Pull the wiring through the threaded conduit entry of the transmitter.
6. Attach the sensor wiring to the terminals as indicated on Figure 5-1.
7. Reattach and secure LCD display adapter plate to 5 in.-lb. of torque (if applicable).
8. Reattach the LCD display (if applicable).
9. Reattach and tighten the transmitter enclosure cover.
10. Remove the power module cover.
11. Connect the Green Power Module.
12. Reattach and tighten the power module cover.
13. Always ensure a proper seal by installing the electronics housing cover(s) so that polymer contacts polymer (i.e. no O-ring visible). Use Rosemount O-rings.
14. Provide 1.75 in. (45 mm) of clearance for units without an LCD display. Provide 3 in. (76 mm) of clearance for units with an LCD display for cover removal.

Figure 3-4: Remote Mount



Note

Dimensions are in inches (millimeters).
Wireless devices must be powered up in order of proximity from the Wireless Gateway, beginning with the closest device to the Gateway. This will result in a simpler and faster network installation.

4 Verify operations

Operations can be verified in four locations:

- At the device via the Local Display
- Using the Field Communicator
- At the Gateway's integrated web interface
- Using AMS Wireless Configurator or AMS Device Manager

4.1 Local display

During normal operation, the LCD display will display the PV value at the configured update rate.

For ***Device Status*** screens, see LCD display screen messages on Rosemount 248 Wireless Reference Manual.

4.2 Field Communicator

For HART® communication, a Rosemount 248 Wireless Device Driver (DD) is required. To obtain the latest DD, see Emerson.com/Rosemount/Device-Install-Kits.

The communication status may be verified in the wireless device using the following Fast Key sequence.

Table 4-1: Fast Key Sequence

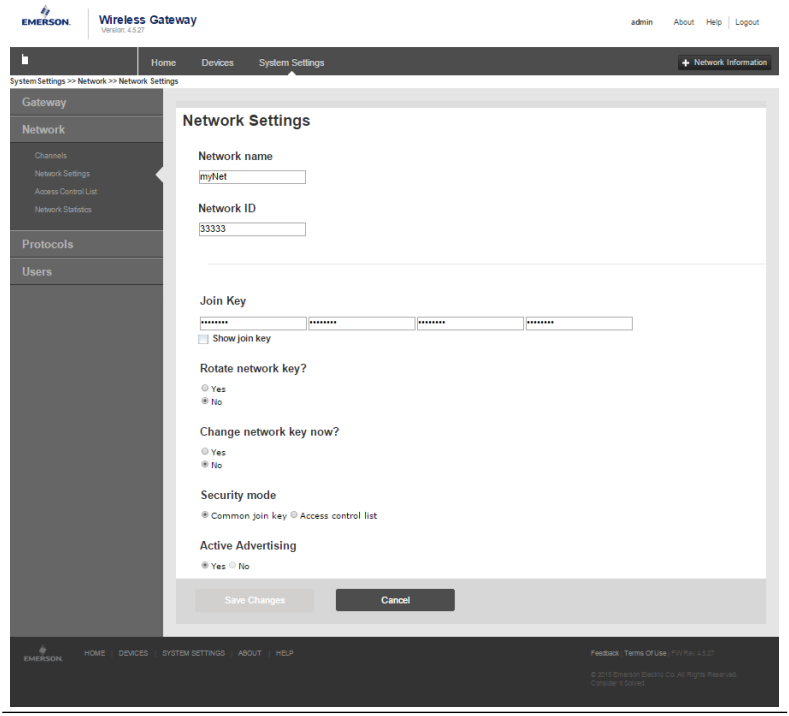
Function	Key sequence	Menu items
Communications	3, 4	Comm Status, Join Mode, Available Neighbors, Advertisement, Join Attempts

4.3 Emerson wireless gateway

In the integrated web interface from the Gateway, navigate to the **Explorer** → **Status** page. This page shows whether the device has joined the network and if it is communicating properly.

Note
It may take several minutes for the device to join the network. If the device joins the network and immediately has an alarm present, then it is likely due to sensor configuration. Check the sensor wiring. See Figure 5-1 and Table 5-1.

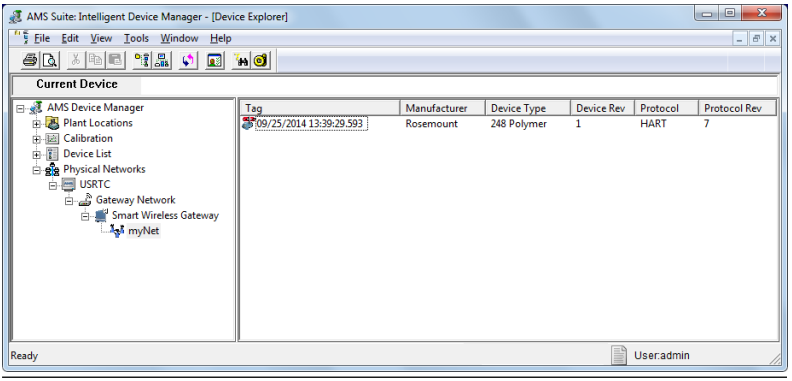
Figure 4-1: Wireless Gateway Network Settings



4.4 AMS wireless configurator

When the device has joined the network, it will appear in the ***Wireless Configurator*** window as shown in Figure 4-2. For HART® communication, a Rosemount 248 Wireless DD is required. To obtain the latest DD, see Emerson.com/Rosemount/Device-Install-Kits.

Figure 4-2: AMS Wireless Configurator



4.5 Troubleshooting

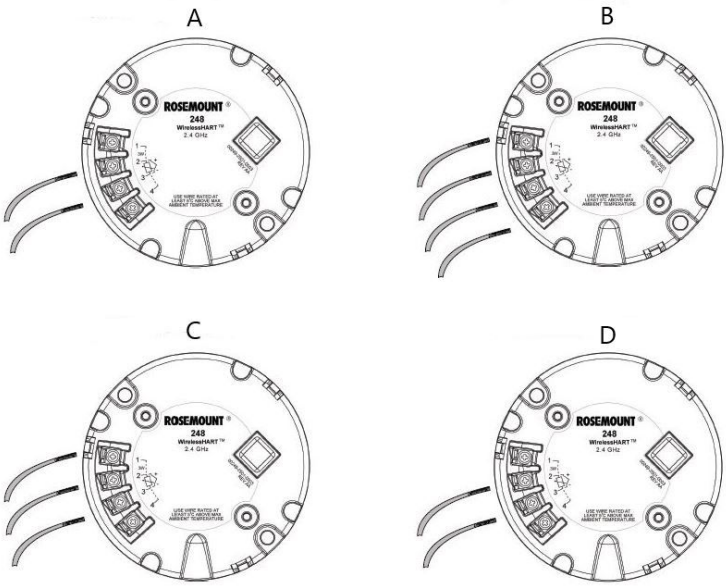
If the device is not joining to the network, check to make sure that you have a power supply in your device. If the device is not joined to the network after power up, verify the correct configuration of the Network ID and Join Key and verify that Active Advertising has been enabled on the Wireless Gateway. The Network ID and Join Key in the device must match the Network ID and Join Key of the Gateway.

The Network ID and Join Key may be obtained from the Gateway on the **Setup** → **Network** → **Settings** page on the web server (see Figure 4-1). The Network ID and Join Key may be changed in the wireless device by using the following Fast Key sequence.

Function	Key sequence	Menu items
Join Device to Network	2,1,1	Join to Network

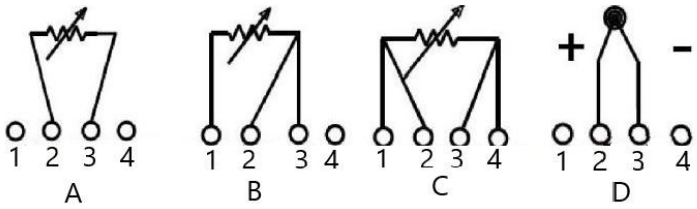
5 Reference information

Figure 5-1: Sensor Wiring



A. Thermocouple and mV
B. 4-Wire RTD and Ω
C. 3-Wire RTD and Ω
D. 2-Wire RTD and Ω

Figure 5-2: Sensor Connections



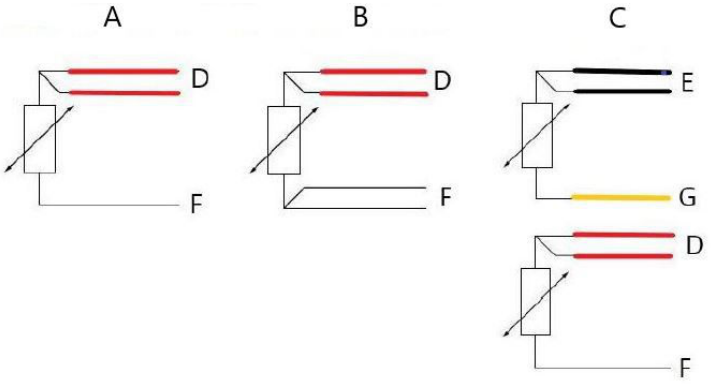
A. 2-wire RTD and Ω
B. 3-wire RTD and Ω
C. 4-wire RTD and Ω
D. T/C and mV

Note
Emerson provides 4-wire sensors for all single element RTDs. Use these RTDs in 3- or 2-wire configurations by leaving the unneeded leads disconnected and insulated with electrical tape.

Table 5-1: *Wireless* HART® Fast Key Sequences

Function	Key sequence	Menu items
Device Information	1, 7	Identification, Revisions, Radio, Security
Guided Setup	2, 1	Join Device to Network, Configure Update Rate, Configure Sensor, Calibrate Sensor
Manual Setup	2, 2	Wireless, Process Sensor, Percent of Range, Device Temperatures, Device Information, Other
Wireless Configuration	2, 2, 1	Network ID, Join to Network, Broadcast Info
Sensor Calibration	3, 5, 2	Sensor Value, Sensor Status, Current Lower Trim, Current Upper Trim, Lower Sensor Trim, Upper Sensor Trim, Recall Factory Trim

Figure 5-3: RTD Lead Wire Configuration per IEC 60751



A. Single element, 3-wire
B. Single element, 4-wire
C. Dual element, 3-wire
D. Red
E. Black
F. White
G. Yellow

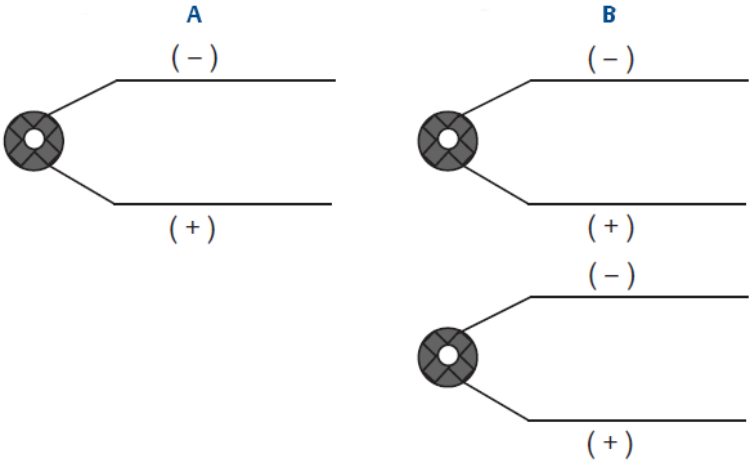
Note

To configure a single element, 4-wire RTD as a 3-wire system, connect only one white lead.

Insulate or terminate the unused white lead in a manner that prevents shorting to the ground.

To configure a single element, 4-wire RTD as a 2-wire system, connect matching colored wires first and then connect the paired wires to the terminal.

Figure 5-4: Thermocouple Lead Wire Configurations



A. Single thermocouple, 2-wire
B. Dual thermocouple, 4-wire

	IEC 60584 thermocouple colors		ASTM E-230 thermocouple colors	
Type	Positive (+)	Negative (-)	Positive (+)	Negative (-)
J	Black	White	White	Red
K	Green	White	Yellow	Red
T	Brown	White	Blue	Red

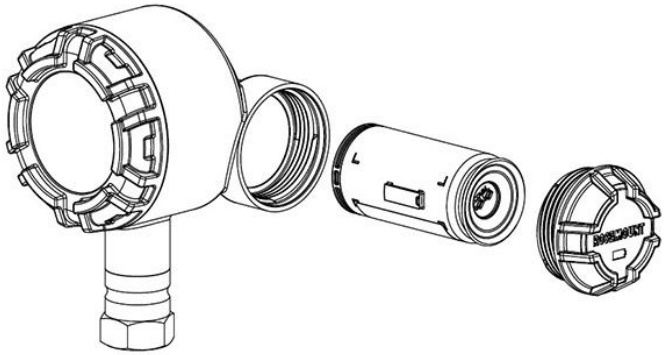
Note
Dual thermocouple sensors are shipped with one pair of the wires shrink-wrapped together.

6 Power module replacement

Expected power module life is 10 years at reference conditions.(1)

When power module replacement is required, remove the cover and remove the Green Power Module. Replace the Green Power Module (part number 701PGNKF) and replace the cover. Tighten to specification and verify operation.

Figure 6-1: Exploded Power Module View



6.1 Handling considerations

The Green Power Module with the wireless unit contains one “D” size primary lithium-thionyl chloride battery (Green Power Module, model number 701PGNKF). Each battery contains approximately 5.0 grams of lithium. Under normal conditions, the battery materials are self-contained and are not reactive as long as the batteries and the pack integrity are maintained.

⚠ CAUTION

Care must be taken to prevent thermal, electrical or mechanical damage.
Contacts must be protected to prevent premature discharge.

Use caution when handling the power module. It may be damaged if dropped from heights in excess of 20 ft (6.1m).

Battery hazards remain when cells are discharged.

(1) *Reference conditions are 70° F (21° C), transmit rate of once per minute, and routing data for three additional network devices.*

NOTICE

Power modules must be stored in a clean and dry area. For maximum power module life, storage temperature must not exceed 86 °F (30 °C).

6.2 Environmental considerations

As with any battery, local environmental rules and regulations must be consulted for proper management of spent batteries. If no specific requirements exist, then Emerson recommends recycling through a qualified recycler. For battery specific information, consult the material's Safety Data Sheet.

6.3 Shipping considerations

The unit was shipped without the power module installed. Before shipping the unit, remove the power module.

7 Product certifications

7.1 European Directive Information

A copy of the EU Declaration of Conformity can be found at the end of the Quick Start Guide. The most recent revision of the EU Declaration of Conformity can be found at Emerson.com/Rosemount.

7.2 Ordinary Location Certification

As standard, the transmitter has been examined and tested to determine that the design meets the basic electrical, mechanical, and fire protection requirements by a Nationally Recognized Test Laboratory (NRTL) as accredited by the Federal Occupational Safety and Health Administration (OSHA).

7.3 Telecommunication compliance

All wireless devices require certification to ensure that they adhere to regulations regarding the use of the RF spectrum. Nearly every country requires this type of product certification. Emerson is working with governmental agencies around the world to supply fully compliant products and remove the risk of violating country directives or laws governing wireless device usage.

7.4 FCC and IC

This device complies with Part 15 of the FCC Rules. Operation is subject to the following conditions: This device may not cause harmful interference. This device must accept any interference received, including interference that may cause undesired operation. This device must be installed to ensure a minimum antenna separation distance of 20 cm from all persons.

7.5 North America

The US National Electrical Code (NEC) and the Canadian Electrical Code (CEC) permit the use of Division marked equipment in Zones and Zone marked equipment in Divisions. The markings must be suitable for the area classification, gas, and temperature class. This information is clearly defined in the respective codes.

7.5.1 USA

I5 USA Intrinsically Safe

Certificate 70008071

Standards FM 3600: 2011; FM 3610: 2010; FM 3611: 2004; UL 61010-1: 2012; UL 50E: 2012; ANSI/IEC 60529:2004

Markings Intrinsically Safe: CL I, DIV 1, GP A, B, C, D; CL I, DIV 2, GP A, B, C, D; Class I, Zone 0, AEx ia IIC T4/T5 Ga; T4 (-50 °C ≤ T_a ≤ +70 °C); T5 (-50 °C ≤ T_a ≤ +40 °C); WHEN INSTALLED PER ROSEMOUNT DWG 00249-2020; TYPE 4X, IP66/67

See Table 7-1 for entity parameters.

Special Condition for Safe Use (X)

1. Battery exchange: The battery module can be changed inside hazardous gas-explosive locations. During battery change it must be assured that the connections are free from dust or dirt.

7.5.2 Canada

I6 Canada Intrinsically Safe

Certificate 70008071

Standards CSA C22.2 No. 0-10; CSA C22.2 No. 94.2-07 (R2012); CSA C22.2 No. 213-M1987 (R2013); CAN/CSA-60079-0-11; CAN/CSA-60079-11-14; CAN/CSA C22.2 No. 60529-05; CAN/CSA-C22.2 No. 61010-1-12

Markings Intrinsically Safe: CL I, DIV 1, GP A, B, C, D; CL I, DIV 2, GP A, B, C, D; Ex ia IIC T4/T5 Ga; T4 (–50 °C ≤ T_a ≤ +70 °C); T5 (–50 °C ≤ T_a ≤ +40 °C); WHEN INSTALLED PER ROSEMOUNT DWG 00249-2020; TYPE 4X, IP66/67

See Table 7-1 for entity parameters.

Special Condition for Safe Use (X)

1. Battery exchange: The battery module can be changed inside hazardous gas-explosive locations. During battery change it must be assured that the connections are free from dust or dirt.

7.6 Europe

I1 ATEX Intrinsic Safety

Certificate Baseefa14ATEX0359X

Standards EN IEC 60079-0: 2018; EN 60079-11: 2012

Markings ⟨Ex⟩ II 1 G Ex ia IIC T4/T5 Ga; T4 (–60 °C ≤ T_a ≤ +70 °C); T5 (–60 °C ≤ T_a ≤ +40 °C)

See Table 7-1 for entity parameters.

Special Condition for Safe Use (X)

1. The plastic enclosure may present a potential electrostatic ignition hazard and must not be rubbed or cleaned with a dry cloth.

7.7 International

I7 IECEx Intrinsic Safety

Certificate IECEx BAS 14.0158X

Standards IEC 60079-0: 2017; IEC 60079-11: 2011

Markings Ex ia IIC T4/T5 Ga; T4 (-60 °C ≤ T_a ≤ +70 °C); T5 (-60 °C ≤ T_a ≤ +40 °C)

See Table 7-1 for entity parameters.

Special Condition for Safe Use (X)

1. The plastic enclosure may present a potential electrostatic ignition hazard and must not be rubbed or cleaned with a dry cloth.

7.8 Brazil

I2 Brazil Intrinsic Safety

Certificate UL-BR 15.0222X

Standards ABNT NBR IEC 60079-0: 2008 + Corrigendum 1:2011; ABNT NBR IEC 60079-11: 2009

Markings Ex ia IIC T4/T5 Ga; T4 (–60 °C ≤ T_a ≤ +70 °C); T5 (–60 °C ≤ T_a ≤ +40 °C)

See Table 7-1 for entity parameters.

Special Condition for Safe Use (X)

The plastic enclosure may present a potential electrostatic ignition hazard and must not be rubbed or cleaned with a dry cloth.

7.9 China

I3 China Intrinsic Safety

Certificate GYJ20.1147X

Standards GB3836.1-2010, GB3836.4-2010, GB3836.20-2010

Markings Ex ia IIC T4/T5 Ga; T4 (–60 °C≤ T_a ≤ +70 °C); T5 (–60 °C ≤ T_a ≤ +40 °C)

See Table 7-1 for entity parameters.

Special Conditions for Safe Use (X)

1. Non-metallic parts incorporated in the enclosure of the product shall only be cleaned with a damp cloth to avoid electrostatic charge.
2. Must use Rosemount Model 701PGNKF SmartPower Green Power Module provided by the manufacture.

7.10 Japan

I4 Japan Intrinsic Safety

Certificate CML 20JPN2243X

Markings Ex ia IIC T4, T5 Ga (-60 °C ~ +40/70 °C)

See Table 7-1 for entity parameters.

Special Conditions for Safe Use (X)

1. The plastic enclosure may present a potential electrostatic ignition hazard and must not be rubbed or cleaned with a dry cloth.
2. Power shall be provided only by a Model 701PGNKF SmartPower Green Power Module.

7.11 EAC

IM Technical Regulation Customs Union (EAC) Intrinsic Safety

Markings 0Ex ia IIC T5 Ga X; 0Ex ia IIC T4 Ga X; T5(–60 °C ≤ T_a ≤ +40 °C), T4(–60 °C ≤ T_a≤ +70 °C); IP66/IP68

Specific Condition for Safe Use (X)

1. See certificate for special conditions.

7.12 Combinations

KQ Combination of I1, I5, and I6

Table 7-1: Entity Parameters

Voltage U_O	6.6 V
Current I_O	26.2 mA

Table 7-1: Entity Parameters *(continued)*

Power P_O	42.6 mW
Capacitance C_O	11 µF
Inductance L_O	25 mH

7.13 Y3 ATEX/IECEx RFID tag approvals

Certificate	IECEx EPS 15.0042X, EPS 15 ATEX 1 1011 X
Markings	II 2G Ex ia IIC T6/T4 Gb, II 2D Ex ia IIC T80/T130C Db

Conditions of certification

Maximum operating temperature: -58 °F (-50 °C) to +158 °F (+70 °C)

The RFID tags shall never be exposed to high electromagnetic field strengths according to IEC 60079-14.

Electrostatic charges shall be avoided. The tags shall never be used next to strong charge generating processes.

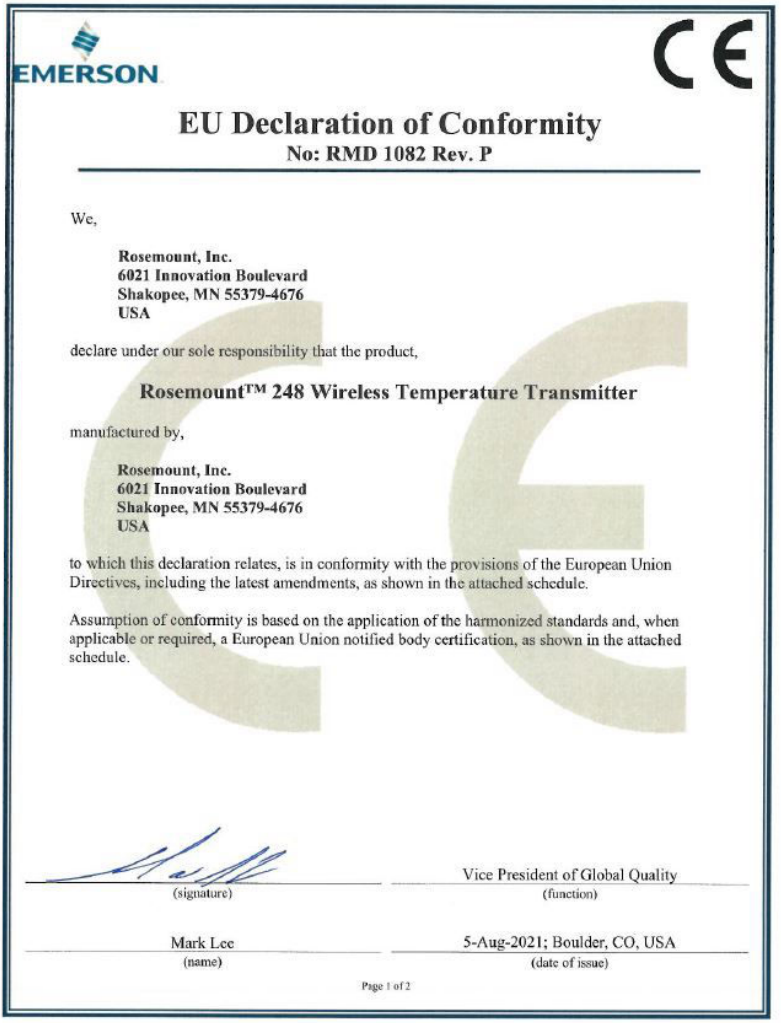
⚠ WARNING

Additional warnings

The plastic enclosure may present a potential electrostatic ignition hazard.

RFID tag has limitations in ambient temperature and zone installation areas (Zones 1 & 21) as compared to the gauge.

8 Declaration of conformity



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CE

EU Declaration of Conformity

No: RMD 1082 Rev. P

We,

Rosemount, Inc.
6021 Innovation Boulevard
Shakopee, MN 55379-4676
USA

declare under our sole responsibility that the product,

Rosemount™ 248 Wireless Temperature Transmitter

manufactured by,

Rosemount, Inc.
6021 Innovation Boulevard
Shakopee, MN 55379-4676
USA

to which this declaration relates, is in conformity with the provisions of the European Union Directives, including the latest amendments, as shown in the attached schedule.

Assumption of conformity is based on the application of the harmonized standards and, when applicable or required, a European Union notified body certification, as shown in the attached schedule.

(signature)

Vice President of Global Quality
(function)

Mark Lee
(name)

5-Aug-2021; Boulder, CO, USA
(date of issue)

Page 1 of 2

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CE

EU Declaration of Conformity

No: RMD 1082 Rev. P

EMC Directive (2014/30/EU)

Harmonized Standards:
EN 61326-1: 2013

Radio Equipment Directive (RED) (2014/53/EU)
Rosemount 248 Wireless Temperature Transmitter (248, 248DX)

Harmonized Standards:
EN 300 328 V2.2.2: 2019
EN 301 489-1 V2.1.1
EN 301 489-17 V3.1.1
EN 61010-1: 2010
EN 62479: 2010

ATEX Directive (2014/34/EU)

Rosemount 248 Wireless Temperature Transmitter (Polymer housing)

Baseefa14ATEX0359X – Intrinsic Safety Certificate
Equipment Group II, Category 1 G
Ex ia IIC T4/T5 Ga
Harmonized Standards:
EN IEC 60079-0: 2018, EN60079-11: 2012

ATEX Notified Body
SGS FIMKO OY [Notified Body Number: 0598]
Takomotie 8
00380 HELSINKI
Finland

ATEX Notified Body for Quality Assurance
SGS FIMKO OY [Notified Body Number: 0598]
Takomotie 8
00380 HELSINKI
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Page 2 of 2

9 China RoHS

含有 China RoHS 管控物质超过最大浓度限值的部件型号列表 248
List of 248 Parts with China RoHS Concentration above MCVs

部件名称 Part Name	有害物质 / Hazardous Substances					
	铅 Lead (Pb)	汞 Mercury (Hg)	镉 Cadmium (Cd)	六价铬 Hexavalent Chromium (Cr +6)	多溴联苯 Polybrominated biphenyls (PBB)	多溴联苯醚 Polybrominated diphenyl ethers (PBDE)
电子组件 Electronics Assembly	X	O	O	O	O	O
壳体组件 Housing Assembly	O	O	O	X	O	O
传感器组件 Sensor Assembly	X	O	O	O	O	O

本表格系依据 SJ/T11364 的规定而制作.
This table is proposed in accordance with the provision of SJ/T11364.

O: 意为该部件的所有均质材料中该有害物质的含量均低于 GB/T 26572 所规定的限量要求.
O: Indicate that said hazardous substance in all of the homogeneous materials for this part is below the limit requirement of GB/T 26572.

X: 意为在该部件所使用的所有均质材料里，至少有一类均质材料中该有害物质的含量高于 GB/T 26572 所规定的限量要求.
X: Indicate that said hazardous substance contained in at least one of the homogeneous materials used for this part is above the limit requirement of GB/T 26572.

部件名称 Part Name	组装备件说明 Spare Parts Descriptions for Assemblies
电子组件 Electronics Assembly	电子线路板组件 Electronic Board Assemblies 端子块组件 Terminal Block Assemblies
壳体组件 Housing Assembly	电子外壳 Electrical Housing

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