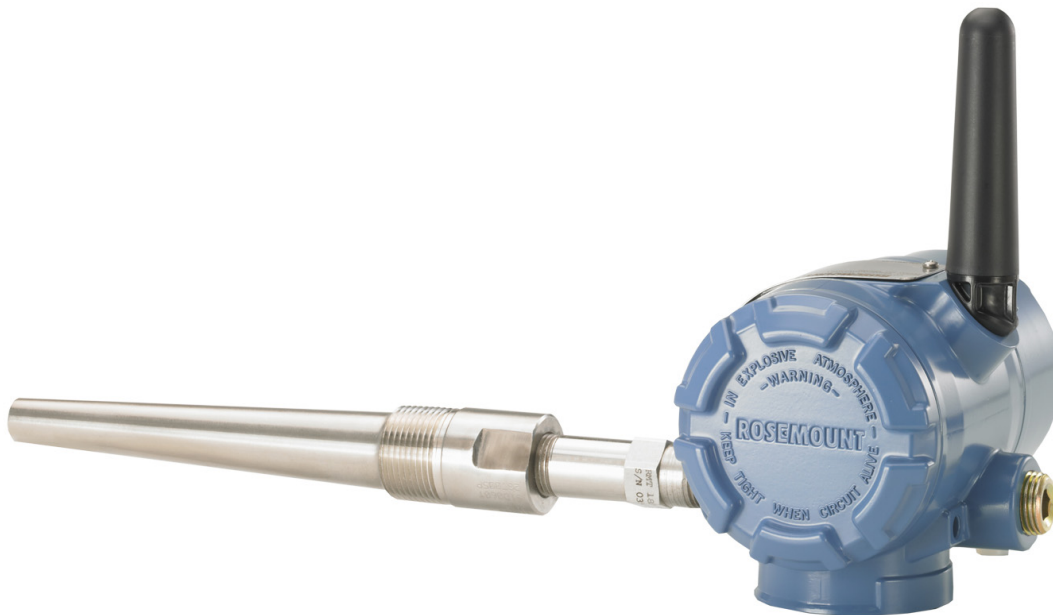


Rosemount 248 Wireless Temperature Transmitter



WirelessHART

- Standard temperature transmitter offers a wireless solution for process monitoring
- Optimize plant efficiency and increase measurement reliability with industry-proven capabilities and specifications
- Smart Wireless delivers innovative wireless solutions for temperature measurement and overall transmitter performance
- Explore the benefits of a Complete Point Solution from Rosemount Temperature

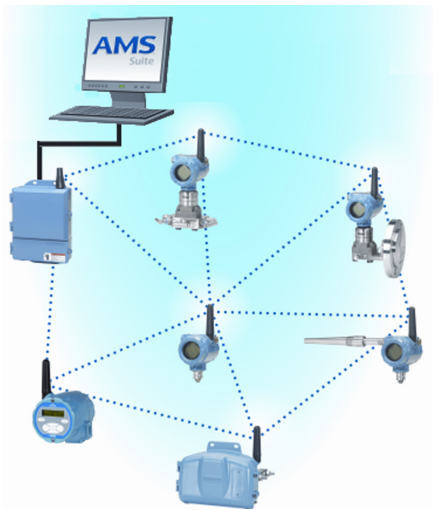
Rosemount 248 Wireless Temperature Transmitter

Standard temperature transmitter offers a cost effective solution for wireless process monitoring

- Single sensor capability with universal sensor inputs (RTD, T/C, mV, ohms)
- IEC-approved WirelessHART® protocol
- Dual-compartment, aluminum housing

Optimize plant efficiency and increase measurement reliability with industry-proven capabilities and specifications

- One-year stability rating reduces maintenance costs
- User-centric device dashboards communicate important diagnostics and ensure process health
- Open/short sensor diagnostics assist with detecting issues in the sensor loop
- Compensation for ambient temperatures enhances transmitter performance
- Dual-compartment housing provide high reliability in harsh industrial environments



Smart Wireless delivers innovative wireless solutions for temperature measurement and overall transmitter performance

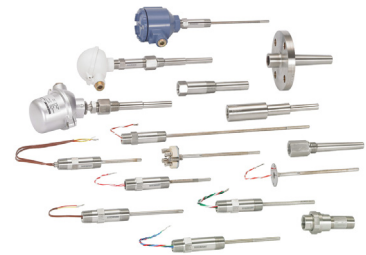
- Self-organizing network delivers information rich data with >99% data reliability and establishes a highly stable network
- Smart Wireless capabilities extend the full benefits of PlantWeb® to previously inaccessible temperature measurement locations
- Emerson SmartPower™ solutions provide an intrinsically safe Power Module, allowing field replacements without removing the transmitter from the process, keeping personnel safe and reducing maintenance costs
- Emerson Process Management’s layered approach to wireless network security ensures that data transmissions are secure

Contents

Ordering Information	4	Product Certifications	11
Transmitter Specifications	6	Dimensional Drawings	13

Explore the benefits of a complete point solution from Rosemount Temperature Measurement

- An “Assemble To Sensor” option enables Emerson to provide a complete point temperature solution, delivering an installation-ready transmitter and sensor assembly
- Emerson offers a selection of RTDs, thermocouples, and thermowells that bring superior durability and Rosemount reliability to temperature sensing, complementing the Rosemount Transmitter portfolio



Experience global consistency and local support from numerous worldwide Rosemount Temperature manufacturing sites



- World-class manufacturing provides globally consistent product from every factory and the capacity to fulfill the needs of any project, large or small
 - Experienced Instrumentation Consultants help select the right product for any temperature application and advise on best installation practices
 - An extensive global network of Emerson service and support personnel can be on-site when and where they are needed
-
- Make wireless installation and configuration easy with the **Emerson Smart Wireless Gateway**.
 - For wireless applications that require superior accuracy, user-configurable alerts, or a local display, consider the **Rosemount 648** Wireless Temperature Transmitter.
 - Explore how Emerson's intrinsically safe **SmartPower solutions** reduce maintenance costs.

Ordering Information



The Rosemount 248 Wireless Temperature Transmitter has a rugged wireless transmitter design and industry-proven capabilities and specifications.

Transmitter features include:

- IEC-approved *WirelessHART* protocol (Option Code WA3)
- External antenna (Option Code WK1)
- 3-Point Calibration Certificate (Option Code Q4)
- Assemble to Sensor options (Option Code XA)

Specification and selection of product materials, options, or components must be made by the purchaser of the equipment. See [page 6](#) for more information on Material Selection.

Table 1. Rosemount 248 Wireless Temperature Transmitter Ordering Information

★ The Standard offering represents the most common options. The starred options (★) should be selected for best delivery.

The Expanded offering is subject to additional delivery lead time.

Code	Product description			
248	Temperature Transmitter			
Transmitter type				
D	Wireless Field Mount			★
Transmitter output				
X	Wireless			★
Product certifications				
NA	No Approval			★
I5	FM Intrinsically Safe			★
N5	FM Non-incendive and Dust Ignition-proof			★
I6	CSA Intrinsically Safe			★
I1	ATEX Intrinsic Safety			★
I7	IECEx Intrinsic Safety			★
IM	Technical Regulations Customs Union (EAC) Intrinsic Safety			★
Enclosure options			Material	IP rating
D	Wireless Housing		Aluminum	IP66
Conduit entry size				
2	1/2-14 NPT			★

Table 1. Rosemount 248 Wireless Temperature Transmitter Ordering Information

★ The Standard offering represents the most common options. The starred options (★) should be selected for best delivery.

The Expanded offering is subject to additional delivery lead time.

Options (include with selected model number)

Extended product warranty		
WR3	3-year limited warranty	★
WR5	5-year limited warranty	★
Assemble to options		
NS	No Sensor	★
XA	Sensor Specified Separately and Assembled to Transmitter	★
Wireless update rate, operating frequency, and protocol		
WA3	User Configurable Update Rate, 2.4GHz DSSS, <i>WirelessHART</i>	★
Omni-directional wireless antenna and SmartPower		
WK1	External Antenna, Adapter for Black Power Module (I.S. Power Module sold separately) (Note: Black Power Module must be shipped separately, order Model 701PBKKF or Part #00753-9220-0001)	★
Mounting bracket		
B5	Universal “L” Mounting Bracket for 2-in. pipe mounting - SST bracket and bolts	★
Cable gland		
G2	Cable Gland (7.5 mm - 11.9 mm)	★
G4	Thin Wire Cable Gland (3 mm - 8 mm)	★
5-point calibration		
C4	5-Point Calibration (requires the Q4 option code to generate a Calibration Certificate)	★
Calibration certificate		
Q4	Calibration Certificate (3-Point Calibration)	★
External ground		
G1	External Ground Lug Assembly	★
Line filter		
F5	50 Hz Line Voltage Filter	★
F6	60 Hz Line Voltage Filter	★
Software configuration		
C1	Custom Configuration of Date, Descriptor, Message, and Wireless Parameters (requires CDS with order)	★
Typical model number: 248 D X NA D 2 WA3 WK1 F6 NS		

Transmitter Specifications

Functional specifications

Input

Supports Thermocouple, RTD, millivolt, and ohm input types. See “[Accuracy](#)” on page 8 for a full listing of sensor options.

Output

IEC 62591 WirelessHART 2.4 GHz DSSS

Humidity limits

0-99% Non-condensing Relative Humidity

Update rate

WirelessHART, user selectable 1 sec. to 60 min.

Accuracy

(Pt 100 @ reference condition: 20 °C) ± 0.45 °C (± 0.81 °F)

Radio frequency power output from antenna

External (WK1 option) antenna: Maximum of 10 mW (10 dBm) EIRP

Physical specifications

Material selection

Emerson provides a variety of Rosemount products with various product options and configurations including materials of construction that can be expected to perform well in a wide range of applications. The Rosemount product information presented is intended as a guide for the purchaser to make an appropriate selection for the application. It is the purchaser's sole responsibility to make a careful analysis of all process parameters (such as all chemical components, temperature, pressure, flow rate, abrasives, contaminants, etc.), when specifying product materials, options, and components for the particular application. Emerson Process Management is not in a position to evaluate or guarantee the compatibility of the process fluid or other process parameters with the product options, configuration, or materials of construction selected.

Conformance to specification ($\pm 3\sigma$ [Sigma])

Technology leadership, advanced manufacturing techniques, and statistical process control ensure measurement specification conformance to at least $\pm 3\sigma$.

Electrical connections

Power module

The Emerson SmartPower Power Module is field replaceable, featuring keyed connections that eliminate the risk of incorrect installation.

The power module is an Intrinsically Safe solution, containing Lithium-thionyl chloride with a polybutadine terephthalate (PBT) enclosure.

The 248 Wireless has a power module life time rating of 10 years with a one-minute update rate at reference conditions.⁽¹⁾

Sensor terminals

Sensor terminals permanently fixed to terminal block.

Field communicator connections

Communication terminals

Clips permanently fixed to terminal block, designated by the text “COMM.”

Materials of construction

Enclosure

Housing - Low-copper aluminum

Paint - Polyurethane

Cover O-ring - Buna-N

Terminal block and power module

PBT

Antenna

PBT/Polycarbonate (PC) integrated omni-directional antenna

Mounting

Transmitters may be attached directly to the sensor. Mounting brackets also permit remote mounting. See “[Dimensional Drawings](#)” on page 13.

Weight

3.03 lbs. (1.38 kg)

Enclosure ratings (248)

Type 4X and IP66/67 rated dual-compartment housing.

(1) Reference conditions are 70 °F (21 °C), and routing data for three additional network devices.

Note: Continuous exposure to ambient temperature limits (-40 °F or 185 °F) (-40 °C or 85 °C) may reduce specified life by less than 20 percent.

Performance specifications

Electromagnetic compatibility (EMC)

All Models:
Meets all relevant requirements of EN 61326-1; 2006; EN 61326-2-3; 2006.

Transmitter stability

±0.15% of output reading or 0.15 °C (whichever is greater) for 12 months.

Self calibration

The analog-to-digital measurement circuitry automatically self-calibrates for each temperature update by comparing the dynamic measurement to extremely stable and accurate internal reference elements.

Vibration effect

Tested to the following with no effect on performance per IEC 60770-1, 1999:

Frequency	Acceleration
10-60 Hz	0.21 mm peak displacement
60-2000 Hz	3 g

Sensor connections

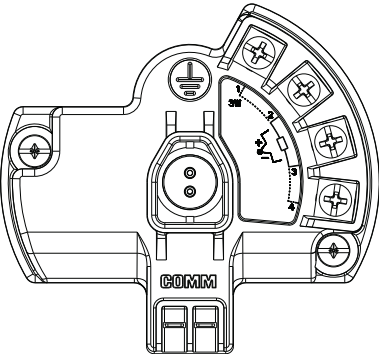
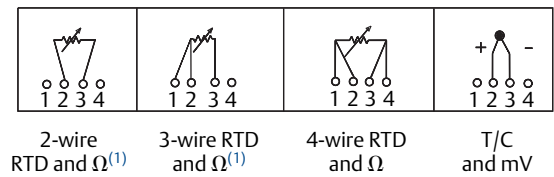


Figure 1. 248 Wireless Sensor Connections Diagram



(1) Rosemount Inc. provides 4-wire sensors for all single element RTDs. You can use these RTDs in 3-wire or 2-wire configurations by leaving the unneeded leads disconnected and insulated with electrical tape.

Temperature limits

Operating limit	Storage limit
-40 to 185 °F -40 to 85 °C	-40 to 185 °F -40 to 85 °C

Accuracy

Table 2. Rosemount 248 Wireless Input Options and Accuracy

Sensor options	Sensor reference	Input ranges		Digital accuracy ⁽¹⁾	
2-, 3-, 4-wire RTDs		°C	°F	°C	°F
Pt 100 ($\alpha = 0.00385$)	IEC 751	–200 to 850	–328 to 1562	± 0.45	± 0.81
Pt 200 ($\alpha = 0.00385$)	IEC 751	–200 to 850	–328 to 1562	± 0.45	± 0.81
Pt 500 ($\alpha = 0.00385$)	IEC 751	–200 to 850	–328 to 1562	± 0.57	± 1.026
Pt 1000 ($\alpha = 0.00385$)	IEC 751	–200 to 300	–328 to 572	± 0.57	± 1.026
Pt 100 ($\alpha = 0.003916$)	JIS 1604	–200 to 645	–328 to 1193	± 0.45	± 0.81
Pt 200 ($\alpha = 0.003916$)	JIS 1604	–200 to 645	–328 to 1193	± 0.81	± 1.458
Ni 120	Edison Curve No. 7	–70 to 300	–94 to 572	± 0.45	± 0.81
Cu 10	Edison Copper Winding No. 15	–50 to 250	–58 to 482	± 4.16	± 7.488
Pt 50 ($\alpha = 0.00391$)	GOST 6651-94	–200 to 550	–328 to 990	± 0.9	± 1.62
Pt 100 ($\alpha = 0.00391$)	GOST 6651-94	–200 to 550	–328 to 990	± 0.45	± 0.81
Cu 50 ($\alpha = 0.00426$)	GOST 6651-94	–50 to 200	–58 to 392	± 1.44	± 2.592
Cu 50 ($\alpha = 0.00428$)	GOST 6651-94	–185 to 200	–301 to 392	± 1.44	± 2.592
Cu 100 ($\alpha = 0.00426$)	GOST 6651-94	–50 to 200	–58 to 392	± 0.72	± 1.296
Cu 100 ($\alpha = 0.00428$)	GOST 6651-94	–185 to 200	–301 to 392	± 0.72	± 1.296
Thermocouples ⁽²⁾					
Type B ⁽³⁾	NIST Monograph 175, IEC 584	100 to 1820	212 to 3308	± 2.25	± 4.05
Type E	NIST Monograph 175, IEC 584	–50 to 1000	–58 to 1832	± 0.60	± 1.08
Type J	NIST Monograph 175, IEC 584	–180 to 760	–292 to 1400	± 1.05	± 1.89
Type K ⁽⁴⁾	NIST Monograph 175, IEC 584	–180 to 1372	–292 to 2501	± 1.46	± 2.628
Type N	NIST Monograph 175, IEC 584	–200 to 1300	–328 to 2372	± 1.46	± 2.628
Type R	NIST Monograph 175, IEC 584	0 to 1768	–32 to 3214	± 2.25	± 4.05
Type S	NIST Monograph 175, IEC 584	0 to 1768	–32 to 3214	± 2.1	± 3.78
Type T	NIST Monograph 175, IEC 584	–200 to 400	–328 to 752	± 1.05	± 1.89
DIN Type L	DIN 43710	–200 to 900	–328 to 1652	± 1.05	± 1.89
DIN Type U	DIN 43710	–200 to 600	–328 to 1112	± 1.05	± 1.89
Type W5Re/W26Re	ASTM E 988-96	0 to 2000	–32 to 3632	± 2.1	± 3.78
GOST Type L	GOST R 8.585-2001	–200 to 800	–328 to 1472	± 1.80	± 3.24
Other sensor types					
Millivolt Input		–10 to 100 mV		± 0.045 mV	
2-, 3-, 4-wire Ohm Input		0 to 2000 ohms		± 1.35 ohm	

(1) The published digital accuracy applies over the entire sensor input range. Digital output can be accessed by HART® Communications or wireless protocol.

(2) Total digital accuracy for thermocouple measurement: sum of digital accuracy +0.8 °C. (cold junction accuracy).

(3) Digital accuracy for NIST Type B T/C is ±9.0 °C (±16.2 °F) from 100 to 300 °C (212 to 572 °F).

(4) Digital accuracy for NIST Type K T/C is ±2.1 °C (±3.79 °F) from –180 to –90 °C (–292 to –130 °F).

Ambient temperature effect**Table 3. Rosemount 248 Wireless Ambient Temperature Effect**

Sensor options	Sensor reference	Input range (°C)	Temperature effects per 1.0 °C (1.8 °F) change in ambient temperature ⁽¹⁾⁽²⁾	Range
2-, 3-, 4-wire RTDs				
Pt 100 ($\alpha = 0.00385$)	IEC 751	-200 to 850	0.009 °C (0.0162 °F)	Entire Sensor Input Range
Pt 200 ($\alpha = 0.00385$)	IEC 751	-200 to 850	0.012 °C (0.0216 °F)	Entire Sensor Input Range
Pt 500 ($\alpha = 0.00385$)	IEC 751	-200 to 850	0.009 °C (0.0162 °F)	Entire Sensor Input Range
Pt 1000 ($\alpha = 0.00385$)	IEC 751	-200 to 300	0.009 °C (0.0162 °F)	Entire Sensor Input Range
Pt 100 ($\alpha = 0.003916$)	JIS 1604	-200 to 645	0.009 °C (0.0162 °F)	Entire Sensor Input Range
Pt 200 ($\alpha = 0.003916$)	JIS 1604	-200 to 645	0.012 °C (0.0216 °F)	Entire Sensor Input Range
Ni 120	Edison Curve No. 7	-70 to 300	0.009 °C (0.0162 °F)	Entire Sensor Input Range
Cu 10	Edison Copper Winding No. 15	-50 to 250	0.06 °C (0.162 °F)	Entire Sensor Input Range
Pt 50 ($\alpha = 0.003910$)	GOST 6651-94	-200 to 550	0.018 °C (0.0324 °F)	Entire Sensor Input Range
Pt 100 ($\alpha = 0.003910$)	GOST 6651-94	-200 to 550	0.009 °C (0.0162 °F)	Entire Sensor Input Range
Cu 50 ($\alpha = 0.00426$)	GOST 6651-94	-50 to 200	0.012 °C (0.0216 °F)	Entire Sensor Input Range
Cu 50 ($\alpha = 0.00428$)	GOST 6651-94	-185 to 200	0.012 °C (0.0216 °F)	Entire Sensor Input Range
Cu 100 ($\alpha = 0.00426$)	GOST 6651-94	-50 to 200	0.009 °C (0.0162 °F)	Entire Sensor Input Range
Cu 100 ($\alpha = 0.00428$)	GOST 6651-94	-185 to 200	0.009 °C (0.0162 °F)	Entire Sensor Input Range
Thermocouples				
Type B	NIST Monograph 175, IEC 584	100 to 1820	0.0435 °C	$T \geq 1000$ °C
			0.096 °C - (0.0075% of (T - 300))	300 °C $\leq T < 1000$ °C
			0.162 °C - (0.033% of (T - 100))	100 °C $\leq T < 300$ °C
Type E	NIST Monograph 175, IEC 584	-50 to 1000	0.015 °C + (0.00129% of absolute value T)	All
Type J	NIST Monograph 175, IEC 584	-180 to 760	0.0162 °C + (0.00087% of T)	$T \geq 0$ °C
			0.0162 °C + (0.0075% of absolute value T)	$T < 0$ °C
Type K	NIST Monograph 175, IEC 584	-180 to 1372	0.0183 °C + (0.0027% of T)	$T \geq 0$ °C
			0.0183 °C + (0.0075% of absolute value T)	$T < 0$ °C

Table 3. Rosemount 248 Wireless Ambient Temperature Effect

Sensor options	Sensor reference	Input range (°C)	Temperature effects per 1.0 °C (1.8 °F) change in ambient temperature ⁽¹⁾⁽²⁾	Range
Thermocouples				
Type N	NIST Monograph 175, IEC 584	–200 to 1300	0.0204 °C + (0.00108% of absolute value T)	All
Type R	NIST Monograph 175, IEC 584	0 to 1768	0.048 °C	T ≥ 200 °C
			0.069 °C - (0.0108% of T)	T < 200 °C
Type S	NIST Monograph 175, IEC 584	0 to 1768	0.048 °C	T ≥ 200 °C
			0.069 °C - (0.0108% of T)	T < 200 °C
Type T	NIST Monograph 175, IEC 584	–200 to 400	0.0192 °C	T ≥ 0 °C
			0.0192 °C + (0.0129% of absolute value T)	T < 0 °C
DIN Type L	DIN 43710	–200 to 900	0.0162 °C + (0.00087% of T)	T ≥ 0 °C
			0.0162 °C + (0.0075% of absolute value T)	T < 0 °C
DIN Type U	DIN 43710	–200 to 900	0.0192 °C	T ≥ 0 °C
			0.0192 °C + (0.0129% of absolute value T)	T < 0 °C
Type W5Re/W26Re	ASTM E 988-96	0 to 2000	0.048 °C	T ≥ 200 °C
			0.069 °C - (0.0108% of T)	T < 200 °C
GOST Type L	GOST R 8.585-2001	–200 to 800	0.021 °C	T ≥ 0 °C
			0.0105 °C + (0.0045% of absolute value T)	T < 0 °C
Other sensor types				
Millivolt Input		–10 to 100 mV	0.0015 mV	Entire Sensor Input Range
2-, 3-, 4-wire Ohm		0 to 2000 W	0.0252 W	Entire Sensor Input Range

(1) Change in ambient is with reference to the calibration temperature of the transmitter 68 °F (20 °C) from factory.

(2) Ambient temperature effect specification valid over minimum temperature span of 28 °C (50 °F).

Transmitters can be installed in locations where the ambient temperature is between –40 and 85 °C (–40 and 185 °F). In order to maintain excellent accuracy performance, each transmitter is individually characterized over this ambient temperature range at the factory.

Temperature effects example

When using a Pt 100 ($\alpha = 0.00385$) sensor input at 30 °C ambient temperature:

- Digital Temperature Effects: $0.009\text{ °C} \times (30 - 20) = 0.09\text{ °C}$
- Worst Case Error: Digital + Digital Temperature Effects = $0.45\text{ °C} + 0.09\text{ °C} = 0.54\text{ °C}$
- Total Probable Error: $\sqrt{0.45^2 + 0.09^2} = 0.459\text{ °C}$

Product Certifications

Approved Manufacturing Locations

Rosemount Inc. - Chanhassen, Minnesota, USA
 Rosemount Temperature GmbH - Germany
 Emerson Process Management Asia Pacific - Singapore

European Directive Information

A copy of the EC Declaration of Conformity can be found at the end of the Quick Start Guide. The most recent revision of the EC Declaration of Conformity can be found at www.rosemount.com.

Ordinary Location Certification from FM Approvals

As standard, the transmitter has been examined and tested to determine that the design meets the basic electrical, mechanical, and fire protection requirements by FM Approvals, a nationally recognized test laboratory (NRTL) as accredited by the Federal Occupational Safety and Health Administration (OSHA).

North America

- I5** FM Intrinsic Safety and Nonincendive
 Certificate: 3039717
 Standards: FM Class 3600:1998, FM Class 3610:2010, FM Class 3810:2005, ANSI/NEMA 250:2003; ANSI/IEC 60529:2004
 Markings: **IS** CL I/II/III, DIV 1, GP A, B, C, D, E, F, G; **IS** CL I, Zone 0, AEx ia IIC T4/T5; **NI** CL I, DIV 2, GP A, B, C, D; T4(-50 °C ≤ T_a ≤ +70 °C), T5(-50 °C ≤ T_a ≤ +40 °C) when installed per Rosemount drawing 00249-1000; Type 4X; IP66/67
 See [Table 4](#) at the end of the Product Certifications section for Entity Parameters

- N5** FM Nonincendive and Dust-Ignitionproof
 Certificate: 3039717
 Standards: FM Class 3600:1998, FM Class 3611:2004, FM Class 3810:2005, ANSI/NEMA 250: 2003; ANSI/IEC 60529: 2004
 Markings: **NI** CL I, DIV 2, GP A, B, C, D; T4(-50 °C ≤ T_a ≤ +70 °C), T5(-50 °C ≤ T_a ≤ +40 °C); **DIP** CL II/III, DIV 1, GP E, F, G; T5(-50 °C ≤ T_a ≤ +85 °C); when installed per Rosemount drawing 00249-1000; Type 4X; IP66/67

See [Table 4](#) at the end of the Product Certifications section for Entity Parameters

- I6** CSA Intrinsic Safety and Division 2
 Certificate: 1091070
 Standards: CAN/CSA C22.2 No. 0-M90, CSA Std. C22.2 No. 25-1966, CAN/CSA C22.2 No. 94-M91, CAN/CSA C22.2 No. 157-92, CSA C22.2 No. 213-M1987, C22.2 No 60529-05
 Markings: **IS** CL I, DIV 1 GP A, B, C, D; Suitable for **CL I DIV 2** GP A, B, C, D when installed per Rosemount drawing 00249-1020; T3C; Type 4X, IP66/67

- N6** CSA Division 2
 Certificate: 1091070
 Standards: CAN/CSA C22.2 No. 0-M90, CSA Std. C22.2 No. 25-1966, CAN/CSA C22.2 No. 94-M91, CSA C22.2 No. 213-M1987, C22.2 No 60529-05
 Markings: Suitable for **CL I DIV 2** GP A, B, C, D when installed per Rosemount drawing 00249-1020; T3C; Type 4X, IP66/67

Europe

- I1** ATEX Intrinsic Safety
 Certificate: Baseefa10ATEX0121X
 Standards: EN 60079-0:2009; EN 60079-11:2007;
 Markings:  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 4](#) at the end of the Product Certifications section for Entity Parameters

Special Conditions for Safe Use (X):

1. The plastic antenna may present a potential electrostatic ignition hazard and must not be rubbed or cleaned with a dry cloth.
2. The Model 248 enclosure may be made of aluminum alloy and given a protective polyurethane paint finish; however, care should be taken to protect it from impact or abrasion if located in a Zone 0 area.

Technical Regulations Customs Union (EAC)

IM Contact an Emerson Process Management representative for additional information

International

I7 IECEx Intrinsic Safety
 Certificate: IECEx BAS 10.0059X
 Standards: IEC 60079-0:2007, IEC 60079-11:2006;
 Markings: Ex ia IIC T4/T5 Ga, T4(-60 °C ≤ T_a ≤ +70 °C),
 T5(-60 °C ≤ T_a ≤ +40 °C);
 See [Table 4](#) at the end of the Product Certifications section for Entity Parameters

Special Conditions for Safe Use (X):

1. The plastic antenna may present a potential electrostatic ignition hazard and must not be rubbed or cleaned with a dry cloth.
2. The Model 248 enclosure may be made of aluminum alloy and given a protective polyurethane paint finish; however, care should be taken to protect it from impact or abrasion if located in a Zone 0 area.

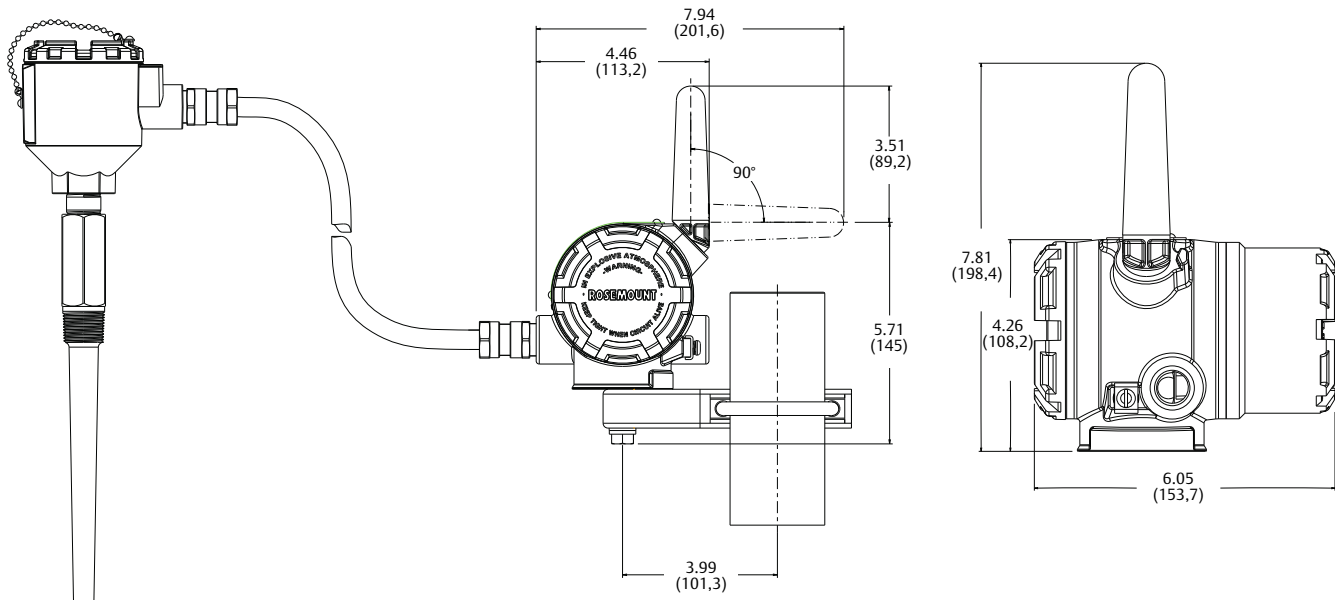
Tables

Table 4. Entity Parameters

Voltage U_o	6.6 V
Current I_o	26.2 mA
Power P_o	42.6 mW
Capacitance C_o	11 μF
Inductance L_o	25 mH

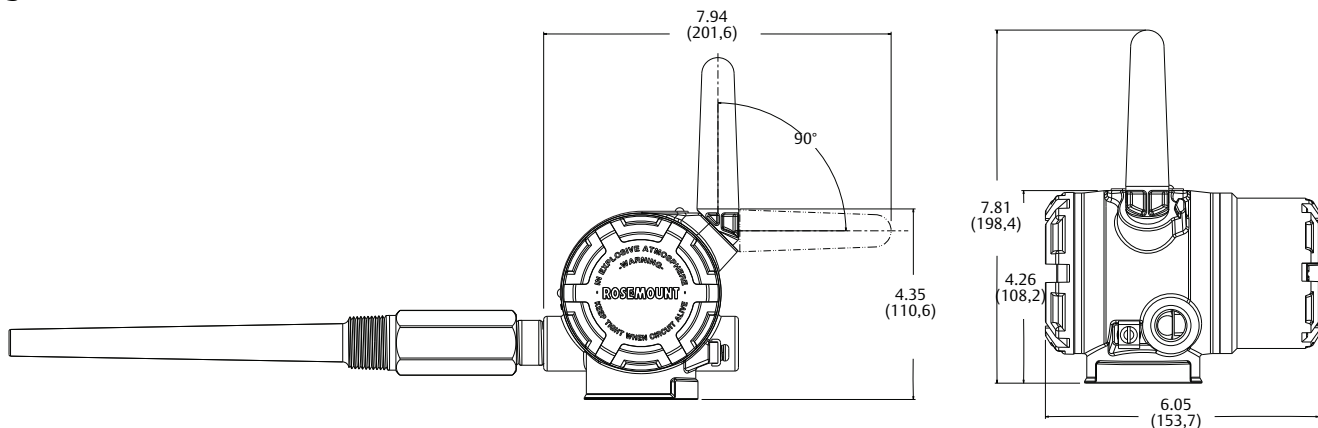
Dimensional Drawings

Figure 2. Rosemount 248 Wireless Remote Mount



Remote mounted temperature sensor specified separately.
Dimensions are in inches (millimeters).

Figure 3. Rosemount 248 Wireless Direct Mount



Direct mounted temperature sensor specified separately (see ordering option code XA).
Dimensions are in inches (millimeters).

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