Quick Start Guide
00825-0100-4100, Rev FC
November 2024

Rosemount™ 3051 Pressure Transmitter and Rosemount 3051CF DP Flow Meters

with *Wireless*HART® Protocol

ROSEMOUNT™

EMERSON

⚠ WARNING

Explosions

Explosions could result in death or serious injury.

Installation of this transmitter in an explosive environment must be in accordance with the appropriate local, national, and international standards, codes, and practices. Review the *Product certifications* section of the *Quick Start Guide* for any restrictions associated with a safe installation. Before connecting a handheld communicator in an explosive atmosphere, ensure that the instruments in the loop are installed in accordance with intrinsically safe or non-incendive field wiring practices.

Process leaks could result in death or serious injury.

To avoid process leaks, only use the O-ring designed to seal with the corresponding flange adapter.

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.

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.

⚠ 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.

NOTICE

This guide provides basic installation guidelines for Rosemount 3051 Wireless Transmitters. It does not provide instructions for configuration, diagnostics, maintenance, service, troubleshooting or intrinsically safe (I.S.) installations. Refer to the Rosemount 3051 Wireless Pressure Transmitters Reference Manual for more instruction. This manual is also available electronically on Emerson.com/Global.

Shipping considerations for wireless products:

Emerson shipped the transmitter to you without the power module installed. Remove the power module prior to shipping the transmitter.

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

Contents

1 Wireless considerations

1.1 Power up sequence

Do not install the power module on any wireless device until the Emerson Wireless Gateway (gateway) is installed and functioning properly. This transmitter uses the green power module (order model number 701PGNKF).

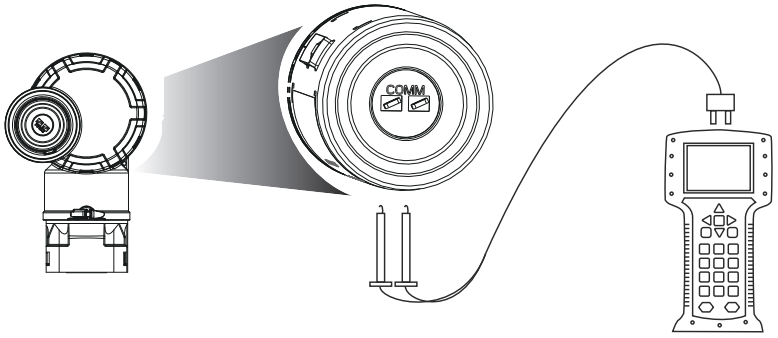
Power up wireless devices in order of proximity from the gateway, beginning with the closest. This will result in a simpler and faster network installation. Enable Active Advertising on the gateway to ensure that new devices join the network faster. For more information, see the Emerson Wireless 1410 Gateway Reference Manual.

1.2 Connecting the transmitter with a communication device

In order for the communication device to interface with the transmitter, the power module must be connected. This transmitter uses the green power module (order model number 701PGNKF).

Figure 1-1 shows how to connect the communication device to the transmitter. Open the power module compartment to hook up the leads.

Figure 1-1: Communication Device Connections



2 Transmitter installation

2.1 Mounting the transmitter

⚠ WARNING

Process connection temperatures above +185 °F (+85 °C) require a limited ambient temperature, reduced by a 1:1.5 ratio.

Consider process connection and ambient temperatures when installing the transmitter with hazardous location certifications. See Table 2-1.

Table 2-1: Intrinsically Safe/Increased Safety

Process connection temperature	Maximum ambient temperature
-76 to +185 °F (-60 to +85 °C)	+158 °F (+70 °C)
+185 to +250 °F (+85 to +121 °C)	+158 to +60 °F (+70 to +16 °C)(1)

(1) Maximum ambient temperature is reduced by 1.5 degree for 1 degree temperature rise in the process connection temperature beyond +185 °F (+85 °C).

2.2 Mounting options

Figure 2-1: Panel Mount Coplanar™ Flange

5/16 x 1½ panel bolts are customer supplied.

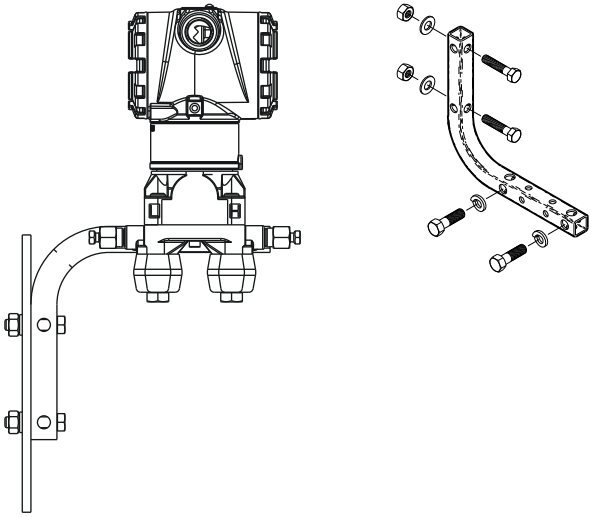


Figure 2-2: Pipe Mount Coplanar Flange

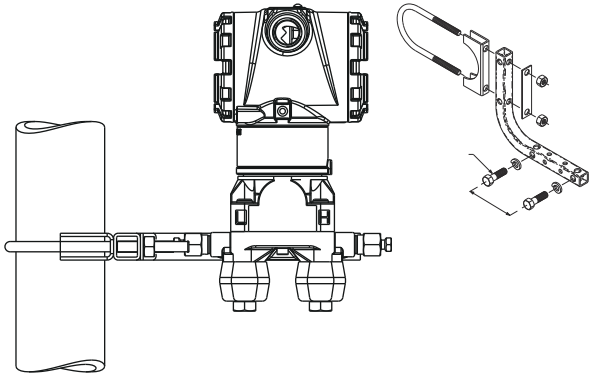


Figure 2-3: Panel Mount Traditional Flange

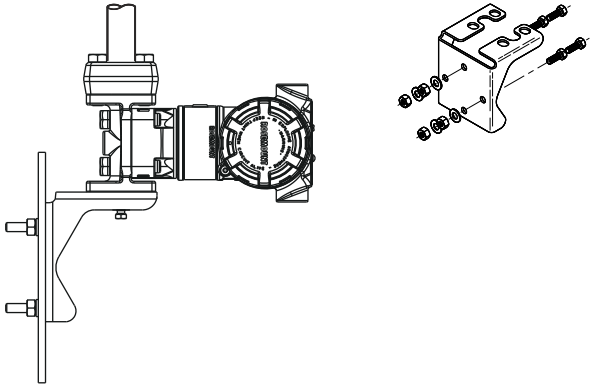


Figure 2-4: Pipe Mount Traditional Flange

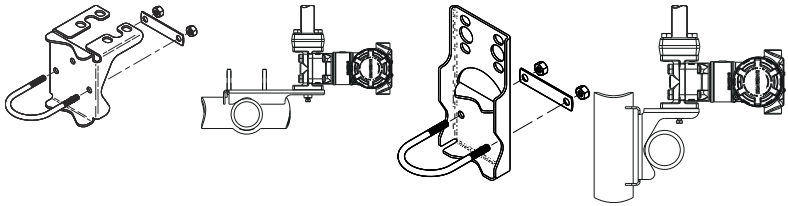


Figure 2-5: Panel Mount Rosemount 3051T

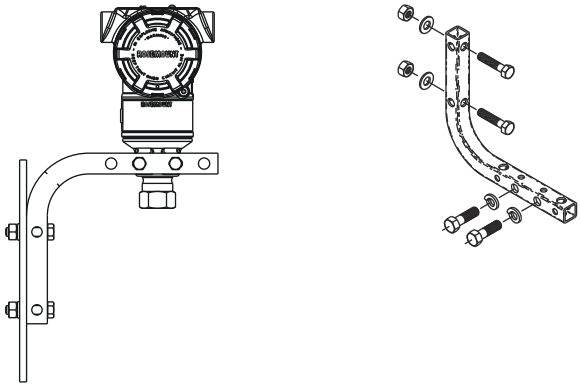


Figure 2-6: Pipe Mount 3051T

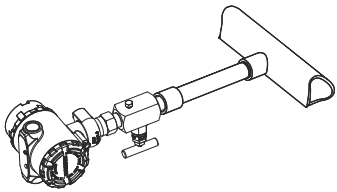
2.2.1 Mount the transmitter in liquid applications

Procedure

1. Place taps to the side of the line.
2. Mount beside or below the taps.
3. Mount the transmitter so the drain/vent valves are oriented upward.

Figure 2-7: Mounting the Transmitter in Liquid Applications

In-line



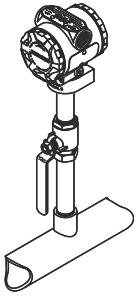
2.2.2 Mount the transmitter in gas applications

Procedure

1. Place taps in the top or side of the line.
2. Mount beside or above the taps.

Figure 2-8: Mounting the Transmitter in Gas Applications

In-line



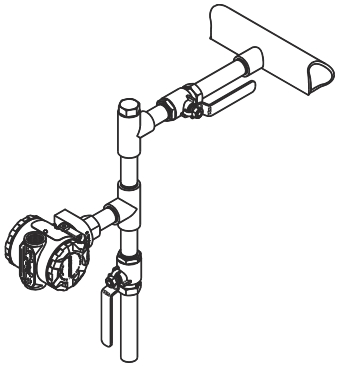
2.2.3 Mount the transmitter in steam applications

Procedure

1. Place taps to the side of the line.
2. Mount beside or below the taps.
3. Fill impulse lines with water.

Figure 2-9: Mounting the Transmitter in Steam Applications

In-line



2.2.4 Install bolts

NOTICE

Carbon steel bolts do not require lubrication, and the stainless steel bolts are coated with a lubricant to ease installation. Do not apply any additional lubricant when installing either type of bolt.

Procedure

1. Finger-tighten the bolts.
2. Torque the bolts to the initial torque value using a crossing pattern.

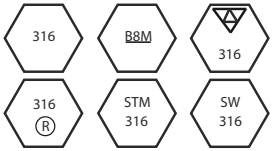
   Note
   See Table 2-2 for torque values.

3. Torque the bolts to the final torque value using the same crossing pattern.

   Note
   See Table 2-2 for torque values.

4. Verify the flange bolts are protruding through the isolator plate before applying pressure.

Table 2-2: Torque Values for the Flange and Flange Adapter Bolts

Bolt material	Head markings	Initial torque	Final torque
Carbon steel (CS)		300 in-lb	650 in-lb
Stainless steel (SST)		150 in-lb	300 in-lb

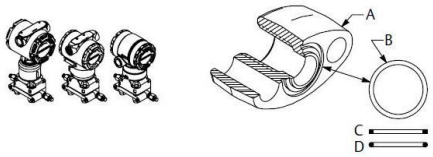
2.2.5 O-rings with flange adapters

⚠ WARNING

Failure to install proper flange adapter O-rings may cause process leaks, which can result in death or serious injury.

The two flange adapters are distinguished by unique O-ring grooves. Only use the O-ring that is designed for its specific flange adapter, as shown in Figure 2-10.

Figure 2-10: O-ring location: Rosemount 3051S/3051/2051



A. Flange adapter
B. O-ring
C. PFTE-based profile (square)
D. Elastomer profile (round)

Note
Whenever the flanges or adapters are removed, visually inspect the O-rings. Replace them if there are any signs of damage, such as nicks or cuts. If you replace the O-rings, re-torque the flange bolts and alignment screws after installation to compensate for seating of the PTFE O-ring.

2.2.6 Environmental seal for housing

For NEMA® 4X, IP66, and IP68 requirements, use thread sealing PTFE tape or paste on male threads of conduit to provide a water and dust tight seal. Consult factory if other ingress protection ratings are required.

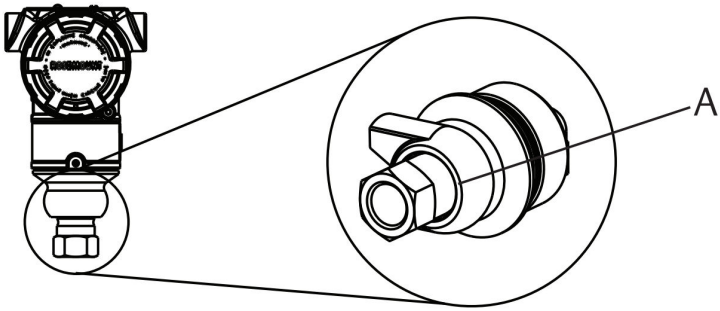
For M20 threads, install conduit plugs to full thread engagement or until mechanical resistance is met.

2.2.7 Inline gauge transmitter orientation

The low side pressure port (atmospheric reference) on the inline gauge transmitter is located in the neck of the transmitter, behind the housing. The vent path is 360 degrees around the transmitter between the housing and sensor (see Figure 2-11).

Keep the vent path free of any obstruction, such as paint, dust, and lubrication, by mounting the transmitter so that the process can drain away.

Figure 2-11: Inline Gauge Low Side Pressure Port



A. Low side pressure port (atmospheric reference)

2.2.8 Install high pressure coned and threaded connection

The transmitter comes with an autoclave connection designed for pressure applications. To connect the transmitter to your process:

Procedure

1. Apply a process-compatible lubricant to the gland nut threads.
2. Slip the gland nut onto the tube; then thread the collar onto the tube end.

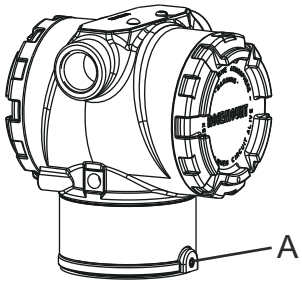
   The collar is reverse threaded.
3. Apply a small amount of process-compatible lubricant to the tube cone to help prevent galling and facilitate sealing. Insert the tubing into the connection and finger tighten the bolts.
4. Tighten the gland nut to a torque of 25 ft-lb.

Note
Emerson has designed a weep hole into the transmitter for safety and leak detection. If fluid begins to leak from the weep hole, isolate the process pressure, disconnect the transmitter, and reseal until the leak is resolved.

2.3 Rotate housing

To improve field access to wiring or to better view the optional LCD display:

Figure 2-12: Housing Rotation



A. Housing rotation set screw (5/64 in.)

Procedure

1. Loosen the housing rotation set screw using a 5/64-inch hex wrench.
2. Rotate the housing clockwise to the desired location.
3. If the desired location cannot be achieved due to thread limit, rotate the housing counterclockwise to the desired location (up to 360° from thread limit).
4. Retighten the housing rotation set screw to no more than 7 in-lb when it reaches the desired location.

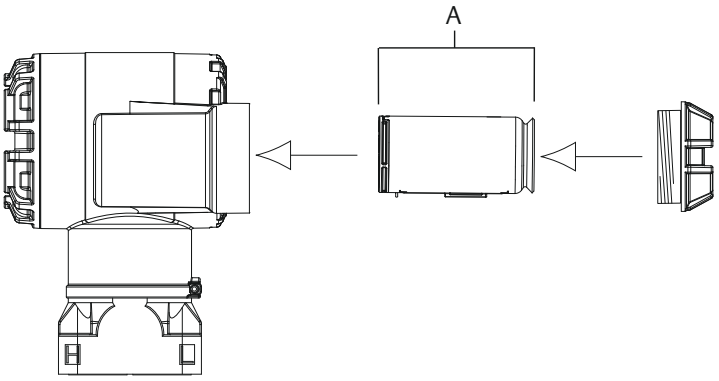
2.4 Connect the power module

Procedure

1. Remove the power module cover.

2. Connect the green power module (see Figure 2-13).

Figure 2-13: Power Module



A. Power module

2.5 Trimming the transmitter

Emerson calibrates transmitters at the factory. Emerson recommends performing a zero trim on gage and differential pressure transmitters once they are installed to eliminate error due to mounting position or static pressure effects. You can perform a zero trim using either a communication device or configuration buttons.

For instructions using AMS Wireless Configurator, see the Rosemount 3051 Wireless Pressure Transmitters Reference Manual.

Note
When performing a zero trim, ensure the equalization valve is open and all wet legs are filled to the correct level.

NOTICE

Emerson does not recommend zeroing an absolute transmitter, such as the Rosemount 3051CA or 3051TA.

2.5.1 Trim with a communication device

Procedure

1. Equalize or vent the transmitter and connect communication device.
2. At the menu, input the HART® fast key sequence.

3. Follow the commands to perform a zero trim.
4. From the ***Home*** screen, enter the fast key sequence: 2, 1, 2

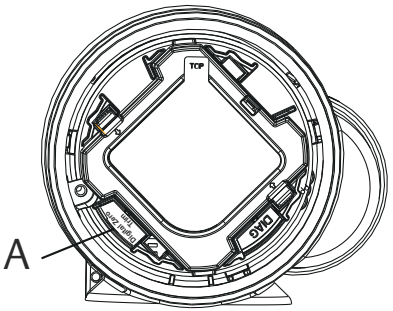
   For connecting with a communication device, refer to Figure 1-1.

2.5.2 Trim with digital **Zero Trim** button

Procedure

1. Set the transmitter pressure.
2. Remove the electronics housing cover.
3. Press and hold the **Zero Trim** button for two seconds to perform a digital zero trim.
4. Reinstall transmitter housing cover. Ensure a proper seal by installing the electronics housing cover so that polymer contacts polymer (no O-ring visible).

Figure 2-14: Digital Zero Trim Button



*A. Digital **Zero Trim** button*

Note
You can also complete a zero trim using AMS Wireless Configurator once the device has joined the network.

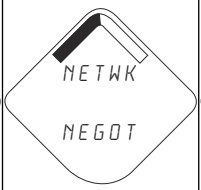
2.6 Verifying transmitter configuration

You can verify transmitter configuration in four ways:

- At the device via the local display (LCD display).
- By using the communication device.
- Via the Emerson Wireless Gateway's integrated web interface.
- Via AMS Wireless Configurator.

2.6.1 Verify transmitter configuration using LCD display

The LCD display will show the output values at the same rate as the wireless update rate. Refer to the Rosemount 3051 Wireless Pressure Transmitters Reference Manual for error codes and other LCD display messages. Press and hold the **Diagnostic** button for at least five seconds to display the ***Tag***, ***Device ID***, ***Network ID***, ***Network Join Status***, and ***Device Status*** screens.

Searching for network	Joining network	Connected with limited bandwidth	Connected
			

2.6.2 Verify transmitter configuration using communication device

For *Wireless*HART® transmitter communication, a Rosemount 3051 Wireless device driver (DD) is required. For connecting with a communication device, refer to Figure 1-1.

From the ***Home*** screen, enter the fast key sequence: 3, 5.

Table 2-3: Device Revision 1, DD Revision 1 Fast Keys

Function	Fast keys
Tag	2, 1, 1, 1, 1
Date	2, 1, 1, 1, 5
Descriptor	2, 1, 1, 1, 3
Message	2, 1, 1, 1, 4
Long Tag	2, 1, 1, 1, 2
Network ID	2, 2, 1, 1
Join Device to Network	2, 2, 1, 2
Update Rate	2, 1, 4
Range Values	2, 1, 1, 5
Transfer Function	2, 1, 1,6
Units	2, 1, 1, 2

Table 2-3: Device Revision 1, DD Revision 1 Fast Keys *(continued)*

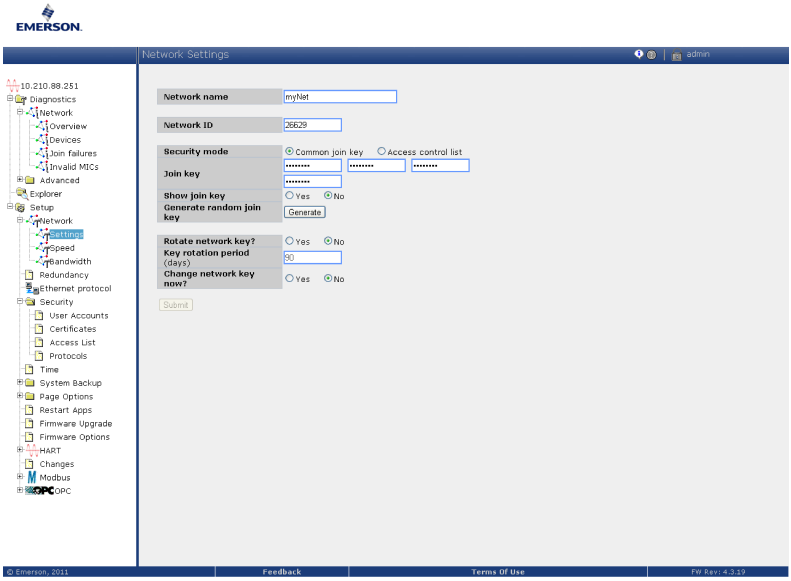
Function	Fast keys
Lower Sensor Trim	3, 5, 1, 1, 2
Upper Sensor Trim	3, 5, 1, 1, 1
Digital Zero Trim	3, 5, 1, 1, 3
Rerange by Applied Pressure	2, 2, 2, 2, 1
Custom Display Configuration	2, 1, 5
Scaled Variable	2, 1, 7, 1
Find Device	3, 5, 2
Simulate Digital Signal	3, 6

2.6.3 Verify transmitter configuration using Emerson Wireless Gateway

In the gateway's integrated web interface, navigate to the **Explorer** → **Status** page. This page will show 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. See the Emerson Wireless Gateway 1410D Gateway Quick Start Guide for more information.

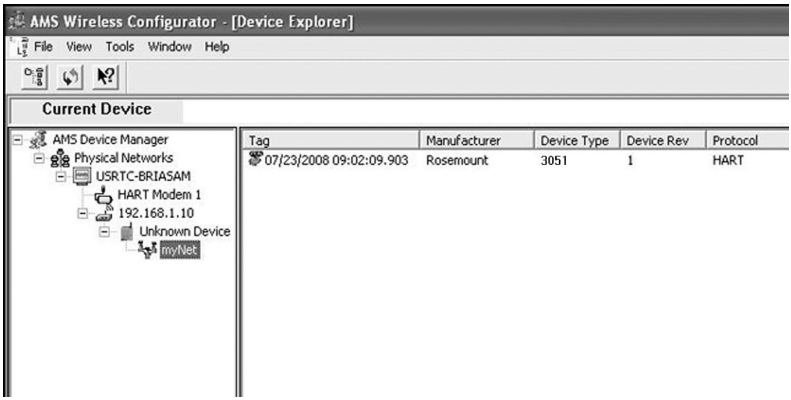
Figure 2-15: Gateway *Network Settings*



2.6.4 Verifying configuration using AMS Wireless Configurator

When the device has joined the network, it will appear in the AMS Wireless Configurator as shown in Figure 2-16.

Figure 2-16: AMS Wireless Configurator Network Setup



3 Troubleshooting

If the device has not joined to the network after power up, verify the correct configuration of the **Network ID** and **Join Key**. Verify that active advertising has been enabled on the Emerson Wireless Gateway. The **Network ID** and **Join Key** in the device must match the **Network ID** and **Join Key** of the gateway.

You can obtain the **Network ID** and **Join Key** from the gateway on the **Setup** → **Network** → **Settings** page on the web interface (see Figure 2-15). The network ID and join key may be changed in the wireless device by using the following fast key sequence. See the Rosemount 3051 Wireless Pressure Transmitters Reference Manual for further troubleshooting.

From the ***Home*** screen, enter the fast key sequence: 3, 5

4 Product certifications

4.1 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 www.Emerson.com.

4.2 Telecommunication Compliance

All wireless devices require certification to ensure that they adhere to regulations regarding the use of the radio frequency (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.

4.3 Federal Communications Commission (FCC) and Industry Canada (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 7.9 in. (20 cm) from all persons.

4.4 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).

4.4.1 Functional specifications

Pollution degree	4
Altitude	16,404.2 ft. (5000 m) maximum
Humidity	All models: 0 to 100 percent relative humidity
Supply voltage (VMAX)	4-20 mA (HART®): 42.4 Vdc FOUNDATION™ Fieldbus, PROFIBUS™ PA: 32 Vdc

4.5 Installing in 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.

4.5.1 USA

I5 USA Intrinsically Safe (IS)

Ranges 1-5

Certificate	FM19US0050X
Standards	FM Class 3600: 2018, FM Class 3610: 2018, FM Class 3810: 2018, ANSI/ISA 60079-0: 2013, ANSI/UL 60079-11: 2014, NEMA 250: 2003, ANSI/IEC 60529: 2014, ANSI/UL 61010: 2016
Markings	IS CL I, DIV 1, GP A, B, C, D T4; CL 1, Zone 0 AEx ia IIC T4; T4 (-40 ° F [-40 °C] ≤ T_a ≤ +158 ° F [+70 °C]) when installed per Rosemount drawing *03031-1062*; Type 4X/IP66/IP68

Special Conditions for Safe Use (X):

1. The Rosemount 3051 Wireless Pressure Transmitter shall only be used with the 701PGNKF Rosemount SmartPower™ Battery Pack.
2. The inline pressure sensor may contain more than 10 percent aluminum and is considered a potential risk of ignition by impact or friction. Care must be taken into account during installation and use to prevent impact and friction.
3. The surface resistivity of the transmitter housing is greater than one gigaohm. To avoid electrostatic charge build-up, it must not be rubbed or cleaned with solvents or a dry cloth.

Range 6

Certificate	CSA 2526009
Standards	FM Class 3600 - 2011, FM Class 3610 - 2010, FM Class 3810 - 2005, ANSI/ISA 60079-0 - 2009, ANSI/ISA 60079-11 - 2009, UL 61010-1 (3rd edition), UL50E (1st edition)
Markings	IS CL I, DIV 1, GP A, B, C, D T4; CL 1, Zone 0 AEx ia IIC T4; T4 (-40 ° F [-40 °C] ≤ T_a ≤ +158 ° F [+70 °C]) when installed per Rosemount drawing *03031-1063*; Type 4X/IP66/IP68

4.5.2 Canada

I6 Canada Intrinsically Safe

Certificate CSA 2526009

Standards CAN/CSA C22.2 No. 0-M91, CAN/CSA C22.2 No.94-M91, CSA Std C22.2 No. 142-M1987, CSA Std C22.2 No. 157-92, CSA Std C22.2 No. 60529:05

Markings Intrinsically Safe for Class I, Division 1, Groups A, B, C, D, T4 when installed per Rosemount drawing *03031-1063*; Type 4X/IP66/IP68

4.5.3 Europe

I1 ATEX Intrinsic Safety

Certificate Baseefa12ATEX0228X

Standards EN 60079-0: 2012, EN 60079-11: 2012

Markings Ex II 1 G Ex ia IIC T4 Ga, T4 (-76 °F [-60 °C] ≤ T_a ≤ +158 °F [+70 °C]) IP66/IP68

Special Conditions for Safe Use (X):

1. The plastic enclosure may constitute a potential electrostatic ignition risk and must not be rubbed or cleaned with a dry cloth.
2. The Model 701PGNKF Power Module may be replaced in a hazardous area. The power module has a surface resistivity greater than 1 GΩ 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.

4.5.4 International

I7 IECEx Intrinsic Safety

Certificate IECEx BAS 12.0124X

Standards IEC 60079-0: 2011, IEC 60079-11: 2011

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

Special Conditions for Safe Use (X):

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

2. The Emerson 701PGNKF Power Module may be replaced in a hazardous area. The power module has a surface resistivity greater than 1 GΩ 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.

4.5.5 Brazil

I2 Brazil Intrinsic Safety

Certificate UL-BR 13.0534X

Standards ABNT NBR IEC 60079-0: 2013, ABNT NBR IEC 60079-11: 2013

Markings Ex ia IIC T4 IP66 Ga, T4 (-40 °C ≤ T_a ≤ +70 °C)

Special Condition for Safe Use (X):

See certificate for special conditions.

4.5.6 China

I3 China Intrinsic Safety

Certificate GYJ18.1419X; GYJ20.1488X [Flow Meters]

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

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

Special Condition for Safe Use (X):

See certificate for special conditions.

4.5.7 Japan

I4 Japan Intrinsic Safety

Certificate TC22022X (Rosemount 3051C/L), TC22023X (Rosemount 3051T), TC22024X (Rosemount 3051CFx)

Markings Ex ia IIC T4 Ga, T4 (-20 ~ +60 °C)

Special Condition for Safe Use (X):

See certificate for special conditions.

4.5.8 EAC (Belarus, Kazakhstan, Kyrgyzstan, Armenia)

IM Technical Regulation Customs Union (EAC) Intrinsic Safety

Certificate EAЭC RU C-US.EX01.B.00176/20

Markings 0Ex ia IIC T4 Ga X; (-60 °C ≤ T_a ≤ +70 °C)

Special Condition for Safe Use (X):

See certificate for special conditions.

4.5.9 Korea

IP Korea Intrinsic Safety

Certificate	13-KB4BO-0295X
Markings	Ex ia IIC T4 (-40 °C ≤ T_a ≤ +70 °C)

Special Conditions for Safe Use (X):

See certificate for special conditions.

4.5.10 Additional Certifications

SBS American Bureau of Shipping (ABS) Type Approval

Certificate	15-HS1405241-PDA
Intended use	Marine & offshore applications - Measurement of either gauge or absolute pressure for liquid, gas, and vapor.

SBV Bureau Veritas (BV) Type Approval

Certificate	23155
Requirements	Bureau Veritas Rules for the Classification of Steel Ships
Application	Class notations: AUT-UMS, AUT-CCS, AUT-PORT and AUT-IMS; Pressure transmitter type 3051 cannot be installed on diesel engines

SDN Det Norske Veritas (DNV) Type Approval

Certificate	TAA000004F
Intended Use	DNV GL Rules for Classification - Ships and offshore units

Application:

Location classes	
Temperature	D
Humidity	B
Vibration	A
Electromagnetic compatibility (EMC)	B

Enclosure	D

4.5.11 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.

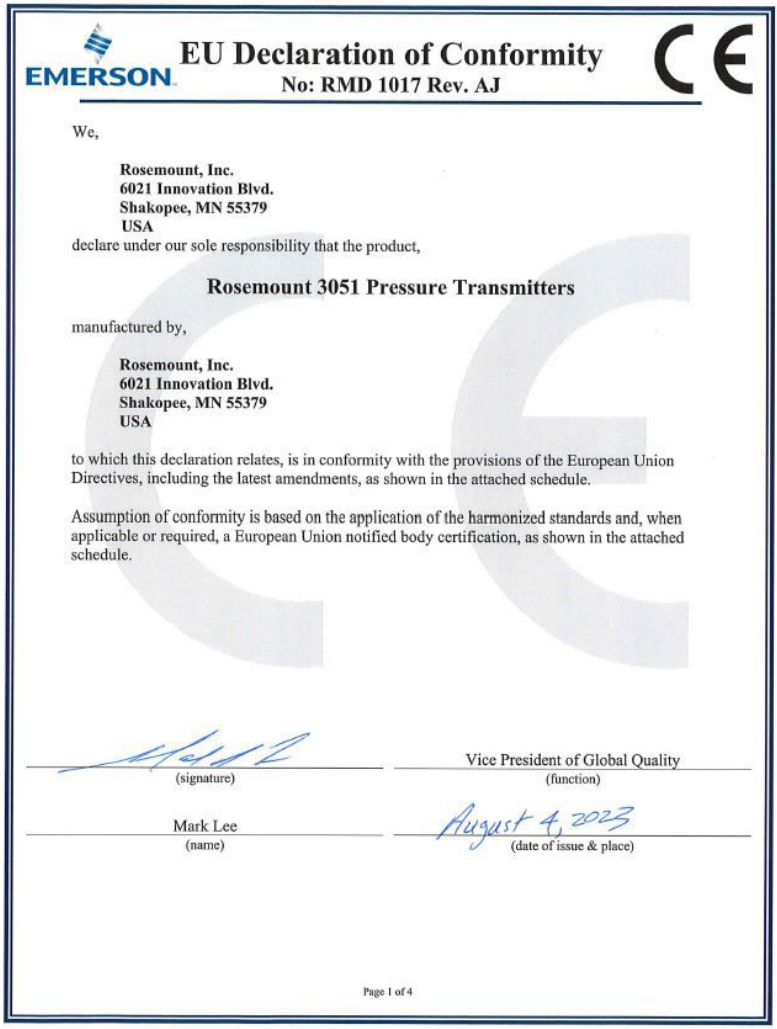
⚠ WARNING

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.

4.6 Declaration of Conformity



EMERSON

EU Declaration of Conformity
No: RMD 1017 Rev. AJ

CE

We,

Rosemount, Inc.
6021 Innovation Blvd.
Shakopee, MN 55379
USA

declare under our sole responsibility that the product,

Rosemount 3051 Pressure Transmitters

manufactured by,

Rosemount, Inc.
6021 Innovation Blvd.
Shakopee, MN 55379
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)

August 4, 2023
(date of issue & place)

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EMERSON

EU Declaration of Conformity

No: RMD 1017 Rev. AJ

CE

EMC Directive (2014/30/EU)

Harmonized Standards: EN 61326-1:2013, EN 61326-2-3:2013

Radio Equipment Directive (RED) (2014/53/EU)

Harmonized Standards:
EN 300 328 V2.2.2
EN 301 489-1 V2.2.0
EN 301 489-17 V3.2.4: 2020
EN 61010-1: 2010
EN 62311: 2020

PED Directive (2014/68/EU)

Rosemount 3051CA4; 3051CD2, 3, 4, 5; 3051HD2, 3, 4, 5; *(also with P9 option)*
QS Certificate of Assessment - Certificate No. 12698-2018-CE-USA-ACCREDIA
Module H Conformity Assessment
Other Standards Used: ANSI/ISA61010-1:2004

All other Rosemount 3051 Pressure Transmitters
Sound Engineering Practice

Transmitter Attachments: Diaphragm Seal, Process Flange, or Manifold
Sound Engineering Practice

Rosemount 3051CFx DP Flowmeters
See DSI 1000 Declaration of Conformity

RoHS Directive (2011/65/EU)

Model 3051 Pressure Transmitters
Harmonized standard: EN IEC 63000:2018

Does not apply to the following options:
- Wireless output code X
- Low power output code M

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EU Declaration of Conformity

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ATEX Directive (2014/34/EU)

BAS97ATEX1089X - Intrinsic Safety
Equipment Group II Category 1 G
Ex ia IIC T5/T4 Ga
Harmonized Standards Used:
EN IEC 60079-0: 2018, EN 60079-11: 2012

BAS00ATEX3105X - Type n
Equipment Group II Category 3 G
Ex nA IIC T5 Gc
Harmonized Standards Used:
EN IEC 60079-0: 2018, EN 60079-15: 2010

Baseefa11ATEX0275X - Dust
Equipment Group II Category 1 D
Ex ta IIIC T_{500} 105 °C Da
Harmonized Standards Used:
EN IEC 60079-0: 2018, EN 60079-31: 2014

KEMA00ATEX2013X - Flameproof
Equipment Group II Category 1/2 G
Ex db IIC T6…T4 Ga/Gb
Harmonized Standards Used:
EN IEC 60079-0: 2018, EN 60079-1: 2014, EN 60079-26: 2015

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EU Declaration of Conformity

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PED Notified Body

DNV GL Business Assurance Italia S.r.l. [Notified Body Number: 0496]
Via Energy Park, 14, N-20871
Vimercate (MB), Italy

ATEX Notified Bodies

DEKRA [Notified Body Number: 0344]
Utrechtseweg 310, 6812 AR Arnhem
P.O. Box 5185, 6802 ED Arnhem
The Netherlands
Postbank 6794687

SGS FIMKO OY [Notified Body Number: 0598]
Takomotie 8
FI-00380 Helsinki,
Finland

ATEX Notified Body for Quality Assurance

SGS FIMKO OY [Notified Body Number: 0598]
Takomotie 8
FI-00380 Helsinki,
Finland

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Figure 4-1: China ROHS

危害物质成分表
03031-9021, Rev AB

罗斯蒙特产品型号 3051
1/10/2020

含有China RoHS管控物质超过最大浓度限值的部件型号列表 3051
List of 3051 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	O	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: 表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: 表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 升级套件 Upgrade Kits 液晶显示屏或本地操作界面 LCD or LOI Display
壳体组件 Housing Assembly	电子外壳 Electrical Housing
传感器组件 Sensor Assembly	传感器模块 Sensor Module

Quick Start Guide
00825-0100-4100, Rev. FC
November 2024

For more information: **Emerson.com/global**

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