Rosemount[™] 2051 Pressure Transmitter and Rosemount 2051CF DP Flow Meter

with WirelessHART® Protocol





Safety Messages

NOTICE

This guide provides basic guidelines for Rosemount 2051 Wireless Transmitters. It does not provide instructions for configuration, diagnostics, maintenance, service, troubleshooting or Intrinsically Safe (I.S.) installations. Refer to the Rosemount 2051 Wireless Reference Manual for more instruction. This manual is also available electronically on Emerson.com/Rosemount.

Shipping considerations for wireless products:

The unit was shipped to you without the power module installed. Remove the power module prior to shipping the unit.

Each power module contains one "D" size primary lithium-thionyl chloride 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

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 approvals section of the Rosemount Reference Manual 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 to protecting your system. Restrict physical access by unauthorized personnel to protect end users' assets. This is true for all systems used within the facility.

Contents

Wireless considerations	5
Mount the transmitter	6
Housing rotation	13
Connect the power module	14

Trim the transmitter	15
Verify transmitter configuration	17
Troubleshooting	20
Product certifications	21

1 Wireless considerations

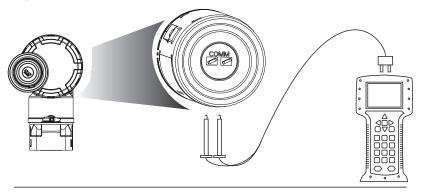
1.1 Power up sequence

The power module should not be installed 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). Wireless devices should 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. For more information, see the Emerson Wireless Gateway Reference Manual.

1.2 Connecting the transmitter with a Field Communicator

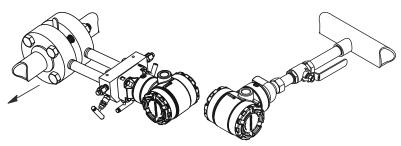
In order for the Field Communicator to interface with the Rosemount 2051 Wireless, the power module must be connected. This transmitter uses the green power module (order model number 701PGNKF). Figure 1-1 shows how to connect the Field Communicator to the transmitter. Open the power module compartment to hook up the leads.

Figure 1-1: Field Communicator Connections



2 Mount the transmitter

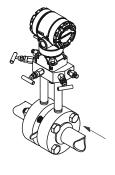
2.1 Liquid applications

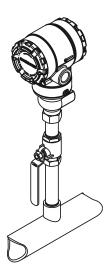


Procedure

- 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.

2.2 Gas applications

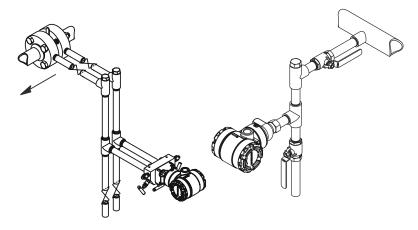




Procedure

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

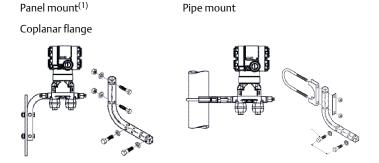
2.3 Steam applications



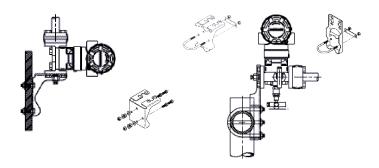
Procedure

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

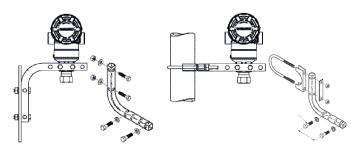
Figure 2-1: Panel and Pipe Mounting



Traditional flange



Rosemount 2051T

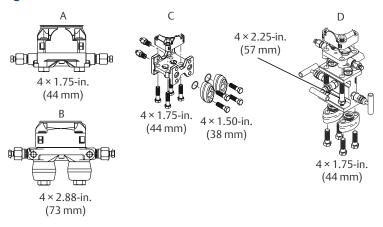


(1) × 1 panel bolts are customer supplied.

2.4 Bolting considerations

If the transmitter installation requires assembly of the process flanges, manifolds, or flange adapters, follow the assembly guidelines to ensure a tight seal for optimal performance characteristics of the transmitters. Use only bolts supplied with the transmitter or sold by Emerson as spare parts. Figure 2-2 illustrates common transmitter assemblies with the bolt length required for proper transmitter assembly.

Figure 2-2: Common Transmitter Assemblies



- A. Transmitter with coplanar flange
- B. Transmitter with coplanar flange and optional flange adapters
- C. Transmitter with traditional flange and optional flange adapters
- Transmitter with coplanar flange and optional manifold and flange adapters

Bolts are typically carbon steel (CS) or stainless steel (SST). Confirm the material by viewing the markings on the head of the bolt and referencing Table 2-1. If bolt material is not shown in Table 2-1, contact a local Emerson representative for more information.

Carbon steel bolts do not require lubrication and the stainless steel bolts are coated with a lubricant to ease installation. However, no additional lubricant should be applied when installing either type of bolt.

Use the following bolt installation procedure:

Procedure

- 1. Finger tighten the bolts.
- 2. Torque the bolts to the initial torque value using a crossing pattern. See Table 2-1 for initial torque value.
- 3. Torque the bolts to the final torque value using the same crossing pattern. See Table 2-1 for final torque value.
- 4. Verify the flange bolts are protruding through the sensor module bolt holes before applying pressure.

Bolt material Head markings Initial Final torque torque CS 300 in-lb 650 in-lb B7M SST 150 in-lb 300 in-lb $\overline{\Diamond}$ 316 B8M 316 STM 316 SW 316 316 (R)

Table 2-1: Torque Values for the Flange and Flange Adapter Bolts

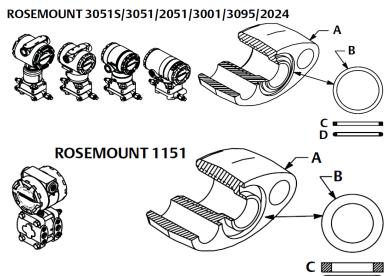
2.5 O-rings

The two styles of Rosemount flange adapters (Rosemount 1151 and Rosemount 3051/2051/2024/3095) each require a unique O-ring (see Figure 2-3). Use only the O-ring designed for the corresponding flange adapter.

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 below. When compressed, PTFE O-rings tend to *cold flow*, which aids in their sealing capabilities.

Figure 2-3: O-rings



- A. Flange adapter
- B. O-ring
- C. PFTE based
- D. Elastomer

Note

You should replace PTFE O-rings if you remove the flange adapter.

2.6 Environmental seal for housing

Thread sealing (PTFE) tape or paste on male threads of conduit is required to provide a water/dust tight conduit seal and meets requirements of NEMA® Type 4X, IP66, and IP68. Consult factory if other Ingress Protection ratings are required.

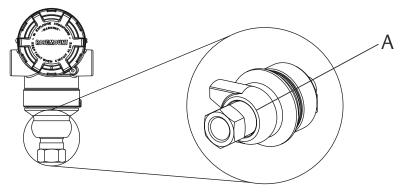
For M20 threads, install conduit plugs to full thread engagement or until mechanical resistance is met.

2.7 In-line gage transmitter orientation

The low side pressure port (atmospheric reference) on the in-line gage transmitter is located in the neck of the transmitter, behind the housing. The vent path is 360° around the transmitter between the housing and sensor. (See Figure 2-4.)

Keep the vent path free of any obstruction, including but not limited to paint, dust, and lubrication by mounting the transmitter so fluids can drain away.

Figure 2-4: In-line Gage Low Side Pressure Port



A. Pressure port location

3 Housing rotation

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

Figure 3-1: Housing Rotation



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

Procedure

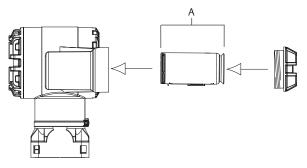
- 1. Loosen the housing rotation set screw using a 5/64 -in. hex wrench.
- 2. Rotate the housing clockwise to the desired location.
- If the desired location cannot be achieved due to thread limit, rotate the housing counterclockwise to the desired location (up to 360° from thread limit).
- 4. Re-tighten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

4 Connect the power module

Procedure

- 1. Remove the power module cover.
- 2. Connect the green power module (see Figure 4-1).

Figure 4-1: Power Module



A. Power module

5 Trim the transmitter

Devices are calibrated by the factory. Once installed, it is recommended to perform a zero trim on gage and differential pressure transmitters to eliminate error due to mounting position or static pressure effects. A zero trim can be performed using either a Field Communicator or configuration buttons.

For instructions using AMS Wireless Configurator, see the Rosemount 2051 Wireless Reference Manual.

Note

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

A CAUTION

It is not recommended to zero an absolute transmitter, Rosemount 2051CA or 2051TA models.

5.1 Trimming using Field Communicator

Procedure

- 1. Equalize or vent the transmitter and connect Field Communicator.
- 2. At the menu, input the HART Fast Key sequence.
- 3. Follow the commands to perform a zero trim.

Example

From the *Home* screen, enter the Fast Key sequence.

```
Device Dashboard Fast Keys 2, 1, 2
```

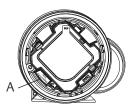
For connecting with a Field Communicator, refer to Figure 1-1.

5.2 Trimming with digital zero trim button

Procedure

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

Figure 5-1: Digital Zero Button



A. Digital zero button

Note

A zero trim can also be completed using AMS Wireless Configurator once the device has joined the network.

6 Verify transmitter configuration

Operation can be verified in four locations:

- At the device via the Local display (LCD display)
- By using the Field Communicator
- Via the Emerson Wireless Gateway's integrated web interface
- Via AMS Wireless Configurator

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 2051 Wireless 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
NETWK	NETWK	NETWK	NETHK
SRCHNG	NEGOT	LIM-OP	OK

6.2 Verify transmitter configuration using Field Communicator

For HART Wireless transmitter communication, a Rosemount 2051 Wireless Transmitter Device Descriptor is required. For connecting with a Field Communicator, refer to Figure 1-1.

From the Home screen, enter the Fast Key sequence.

Table 6-1: 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

Table 6-1: Device Revision 1, DD Revision 1 Fast Keys (continued)

Function	Fast Keys
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
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

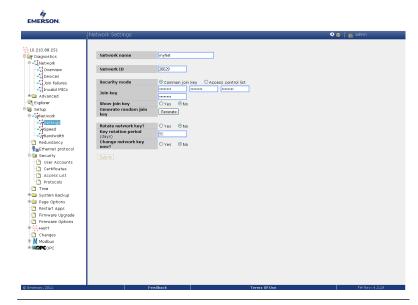
6.3 Verify transmitter configuration using Emerson Wireless Gateway

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 Emerson Wireless Gateway Quick Start Guide for more information.

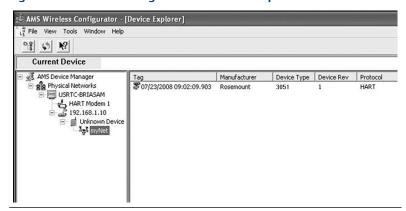
Figure 6-1: Gateway Network Settings



6.4 Verifying configuration using AMS Wireless Configurator

When the device has joined the network, it will appear in the Wireless Configurator as shown in Figure 6-2.

Figure 6-2: Wireless Configurator Network Setup



7 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 the active advertising has been enabled on the 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 interface (see Figure 6-1). The network ID and join key may be changed in the wireless device by using the following Fast Key sequence. See the Rosemount 2051 Wireless Reference Manual for further troubleshooting.

From the Home screen, enter the Fast Key sequence.

Device Dashboard Fast Keys	3,5
	-,-

8 Product certifications

Rev 1.6

8.1 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.

8.2 Telecommunication Compliance

All wireless devices require certification to ensure 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.

8.3 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.

8.4 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).

8.5 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.

8.5.1 USA

15 U.S.A. Intrinsically Safe (IS)

Certificate: FM 19US0050X

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 ($-40 \,^{\circ}\text{C} \le T_a \le +70 \,^{\circ}\text{C}$); when installed per Rosemount

drawing 03031-1062; Type 4X/IP66/IP68

Special Conditions for Safe Use (X):

 The Rosemount 2051 Wireless Pressure Transmitter shall only be used with the 701PGNKF Rosemount SmartPower[™] Battery Pack.

- 2. The in-line 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 used to prevent impact and friction.
- 3. The surface resistivity of the transmitter housing is greater than 1 $G\Omega$. To avoid electrostatic charge build-up, it must not be rubbed or cleaned with solvents or a dry cloth.

8.5.2 Canada

16 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

8.5.3 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($-40 \,^{\circ}\text{C} \le T_a \le +70 \,^{\circ}\text{C}$); IP66/68

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 G Ω 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.

8.5.4 International

17 IECEx Intrinsic Safety

Certificate: IECEx BAS 12.0124X

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

Markings: Ex ia IIC T4 Ga, T4($-40 \,^{\circ}\text{C} \le T_a \le +70 \,^{\circ}\text{C}$); IP66/68

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 G Ω 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.

8.5.5 Brazil

12 INMETRO Intrinsic Safety

Certificate: UL-BR 13.0534X

Standards: ABNT NBR IEC 60079-0:2008 + Errata 1:2011, ABNT NBR IEC

60079-11:2009

Markings: Ex ia IIC T4 IP66 Ga, T4($-40 \,^{\circ}\text{C} \le T_a \le +70 \,^{\circ}\text{C}$)

Special Condition for Safe Use (X):

1. See certificate for special conditions.

8.5.6 China

13 China Intrinsic Safety

Certificate: GY|17.1225X, GY|15.1365X [Flowmeters]

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

Markings: Ex ia IIC Ga T4, $-40 \sim 70 \degree$ C

Special Condition for Safe Use (X):

1. See certificate for special conditions.

8.5.7 Japan

14 TIIS Intrinsic Safety

Certificate: TC22022X (2051C/L), TC22023X (2051T), TC22024X

(2051CFx)

Markings: Ex ia IIC T4 Ga, T4($-20 \sim +60$ °C)

Special Condition for Safe Use (X):

1. See certificate for special conditions.

8.5.8 EAC - Belarus, Kazakhstan, Russia

IM Technical Regulation Customs Union (EAC) Intrinsic Safety

Certificate: TC RU C-US.AA87.B.00588

Markings: 0Ex ia IIC T4 Ga X $(-40 \,^{\circ}\text{C} \le T_a \le +70 \,^{\circ}\text{C})$

Special Condition for Safe Use (X):

1. See certificate for special conditions.

8.5.9 Korea

IP Korea Intrinsic Safety

Certificate: 13-KB4BO-0220X

Markings: Ex ia IIC T4 ($-40 \,^{\circ}\text{C} \le T_a \le +70 \,^{\circ}\text{C}$)

Special Condition for Safe Use (X):

1. See certificate for special conditions.

8.5.10 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.

ABS rules: 2015 Steel Vessels Rules 1-1-4/7.7, 1-1-Appendix 3, 1-1-

Appendix 4

SBV Bureau Veritas (BV) Type Approval

Certificate: 23157 BV

BV rules: Bureau Veritas Rules for the Classification of Steel Ships

Application: Class notations: AUT-UMS, AUT-CCS, AUT-PORT and AUT-

IMS; Pressure transmitter type 2051 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		
Туре	2051	
Temperature	В	
Humidity	В	
Vibration	A	
EMC	В	
Enclosure	D	

Rosemount 2051 Wireless Declaration of Conformity 8.6



EMERSON EU Declaration of Conformity No: RMD 1087 Rev. I



Rosemount, Inc. 8200 Market Boulevard Chanhassen, MN 55317-9685 USA

declare under our sole responsibility that the product,

Rosemount 2051/3051 Wireless Pressure Transmitters

manufactured by,

Rosemount, Inc. 8200 Market Boulevard Chanhassen, MN 55317-9685 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.

> Vice President of Global Quality (signature)

1-Feb-19; Shakopee, MN USA Chris LaPoint (date of issue) (name)

(function)

Page 1 of 3



EMERSON EU Declaration of Conformity No: RMD 1087 Rev. I



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 V2.1.1 EN 301 489-1 V2.2.0 EN 301 489-17 V3.2.0 EN 61010-1: 2010 EN 62479: 2010

PED Directive (2014/68/EU)

Rosemount 2051/3051CA4; 2051/3051CG2, 3, 4, 5; 2051/3051CD2, 3, 4, 5; (also with P9 option)

QS Certificate of Assessment – Certificate No. 12698-2018-CE-ACCREDIA Module H Conformity Assessment

Other Standards Used:

ANSI/ISA 61010-1:2004

EN 60770-1:1999

Note - previous PED Certificate No. 59552-2009-CE-HOU-DNV

All other Rosemount 2051/3051 Wireless Pressure Transmitters

Sound Engineering Practice

Transmitter Attachments: Diaphragm Seal, Process Flange, or Manifold

Sound Engineering Practice

Rosemount 2051CFx/3051CFx DP Flowmeters

Refer to Declaration of Conformity DSI1000

Page 2 of 3



EMERSON EU Declaration of Conformity No: RMD 1087 Rev. I



ATEX Directive (2014/34/EU)

Baseefa12ATEX0228X - Intrinsic Safety Certificate

Equipment Group II, Category I G Ex ia IIC T4 Ga Harmonized Standards: EN 60079-0:2012 + A11:2013 EN 60079-11:2012

PED Notified Body

DNV GL Business Assurance Italia S.r.l. [Notified Body Number: 0496]

Via Energy Park, 14, N-20871

Vimercate (MB), Italy

Note - equipment manufactured prior to 20 October 2018 may be marked with the previous PED Notified Body number; previous PED Notified Body information was as follows: Det Norske Veritas (DNV) (Notified Body Number: 0575]

Veritasveien 1, N-1322 Hovik, Norway

ATEX Notified Body

SGS FIMCO OY [Notified Body Number: 0598]

P.O. Box 30 (Särkiniementie 3)

00211 HELSINKI

Finland

ATEX Notified Body for Quality Assurance

SGS FIMCO OY [Notified Body Number: 0598] P.O. Box 30 (Särkiniementie 3) 00211 HELSINKI Finland

Page 3 of 3

含有China RoHS 管控物质超过最大浓度限值的部件型号列表 Rosemount 2051 List of Rosemount 2051 Parts with China RoHS Concentration above MCVs

	有害物质 / Hazardous Substances				有害物质 / Hazardous Substances		
部件名称 Part Name	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	х	0	0	0	0	0	
壳体组件 Housing Assembly	Х	0	0	Х	0	0	
传感器组件 Sensor Assembly	х	0	0	X	0	0	

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.



Quick Start Guide 00825-0100-4102, Rev. EA October 2019

Global Headquarters

Emerson Automation Solutions 6021 Innovation Blvd. Shakopee, MN 55379, USA

- +1 800 999 9307 or +1 952 906 8888
- +1 952 204 8889
- RFQ.RMD-RCC@Emerson.com

Latin America Regional Office

Emerson Automation Solutions 1300 Concord Terrace, Suite 400 Sunrise, FL 33323, USA

- +1 954 846 5030
- +1 954 846 5121
- RFQ.RMD-RCC@Emerson.com

Asia Pacific Regional Office

Emerson Automation Solutions 1 Pandan Crescent Singapore 128461

- +65 6777 8211
- +65 6777 0947
- Enquiries@AP.Emerson.com
- in Linkedin.com/company/Emerson-Automation-Solutions
- Twitter.com/Rosemount_News
- Facebook.com/Rosemount
- Youtube.com/user/ RosemountMeasurement

North America Regional Office

Emerson Automation Solutions 8200 Market Blvd. Chanhassen, MN 55317, USA

- +1 800 999 9307 or +1 952 906 8888
- +1 952 204 8889
- RMT-NA.RCCRFQ@Emerson.com

Europe Regional Office

Emerson Automation Solutions Europe GmbH Neuhofstrasse 19a P.O. Box 1046 CH 6340 Baar Switzerland

- +41 (0) 41 768 6111
- (a) +41 (0) 41 768 6300
- RFQ.RMD-RCC@Emerson.com

Middle East and Africa Regional Office

Emerson Automation Solutions Emerson FZE P.O. Box 17033 Jebel Ali Free Zone - South 2 Dubai, United Arab Emirates

- +971 4 8118100
- +971 4 8865465
- RFO.RMTMEA@Emerson.com

©2019 Emerson. All rights reserved.

Emerson Terms and Conditions of Sale are available upon request. The Emerson logo is a trademark and service mark of Emerson Electric Co. Rosemount is a mark of one of the Emerson family of companies. All other marks are the property of their respective owners.

