Quick Start Guide
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August 2026

Rosemount™ 3051 Pressure Transmitter





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1 About this guide

This guide provides basic guidelines for Rosemount 3051 Pressure Transmitters. It does not provide instructions for configuration, diagnostics, maintenance, service, troubleshooting, Explosion-proof, Flameproof, or Intrinsically Safe (IS) installations. Refer to the Rosemount 3051 Manual for more instructions. This guide is also available electronically at Emerson.com.

1.1 Safety messages

⚠ WARNING

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 *Product certifications* section of the Quick Start Guide for any restrictions associated with a safe installation.
In an explosion-proof/flameproof installation, do not remove the transmitter covers when power is applied to the transmitter.

Process leaks

Process leaks may cause harm or result in death.

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

Electrical shock

Electrical shock can result in death or serious injury.

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

Conduit/cable entries

Unless otherwise marked, the conduit/cable entries in the housing enclosure use a ½–14 NPT form. Only use plugs, adapters, glands, or conduit with a compatible thread form when closing these entries.
Entries marked M20 are M20 x 1.5 thread form. On devices with multiple conduit entries, all entries will have the same thread form.
When installing in a hazardous location, use only appropriately listed or Ex-certified plugs, glands, or adapters in cable/conduit entries.

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

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

1.2 General safety certificates and approvals

See Rosemount 3051D Product Certifications and Rosemount 3051G Product Certifications for approvals information.

Product certifications are also in the online version of this Quick Start Guide on Emerson.com

2 System readiness

2.1 Confirm HART® revision capability

- If using HART-based control or asset management systems, confirm the HART capability of those systems prior to transmitter installation. Not all systems are capable of communicating with HART Revision 7. You can configure this transmitter for either HART Revision 5 or 7.
- For instructions on how to change the HART revision of your transmitter, see Switch HART® revision mode.

2.2 Confirm correct device driver

- Verify the latest device driver (DD/DTM™) is loaded on your systems to ensure proper communications.
- Download the latest device driver from Emerson.com or Fieldcommgroup.org.

2.2.1 Rosemount 3051 device revisions and drivers

Table 2-1 provides the information necessary to ensure you have the correct device driver and documentation for your device.

Table 2-1: Rosemount 3051 with 4-20 mA HART® protocol device revisions and files

Release date	Device identification			Device driver identification		Review instructions	Review functionality
	NAMUR hardware revision(1)	(1)	HART software revision(2)	HART universal revision	Device revision(3)	Rosemount 2088, 2090P, and 2090F pressure transmitters	Change description
Aug-16	1.1.xx	1.0.xx	3	7	10	with HART and 1–5 Vdc Low Power Protocol Reference Manual with 4–20 mA HART and 1–5 Vdc	(4)

Release date	Device identification			Device driver identification		Review instructions	Review functionality
	NAMUR hardware revision[1]	[1]	HART software revision[2]	HART universal revision	Device revision[3]	Rosemount 2088, 2090P, and 2090F pressure transmitters	Change description
				5	9	Low Power Protocol Reference Manual	
Jan-13	N/A	1.0.xx	1	7	10		[5]
				5	9		
Jan-98	N/A	N/A	178	5	3		N/A

(1) NAMUR revision is located on the hardware tag of the device. Differences in level 3 changes, signified above by xx, represent minor product changes as defined per NE53. Compatibility and functionality are preserved and product can be used interchangeably.

(2) HART software revision can be read using a HART capable configuration tool. Value shown is minimum revision that could correspond to NAMUR revisions.

(3) Device driver file names use Device and DD Revision, (such as 10_01). HART protocol is designed to enable legacy device driver revisions to continue to communicate with new HART devices. To access new functionality, download the new device driver. Emerson recommends downloading new device driver files to ensure full functionality.

(4) HART revision 5 and 7 selectable, Local Operator Interface (LOI), scaled variable, configurable alarms, and expanded engineering units.

(5) Rosemount 3051G Pressure Transmitter updated electronics hardware design. Intrinsic Safety temperature classification change.

3 Transmitter installation

3.1 Mounting the transmitter

3.1.1 Mount the transmitter in liquid applications

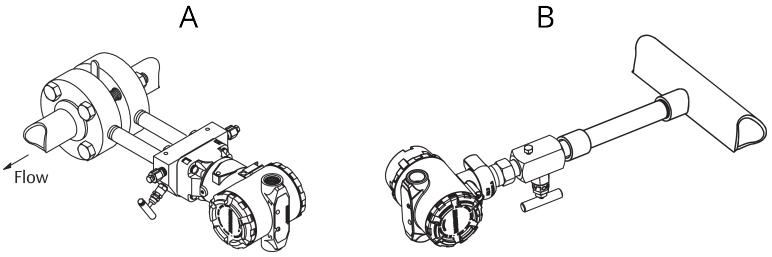
Procedure

1. Place taps to the side of the line.
2. Mount the transmitter beside or below the taps.

Note

When mounting the transmitter, verify the drain/vent valves are oriented upward.

Figure 3-1: Coplanar and in-line liquid applications



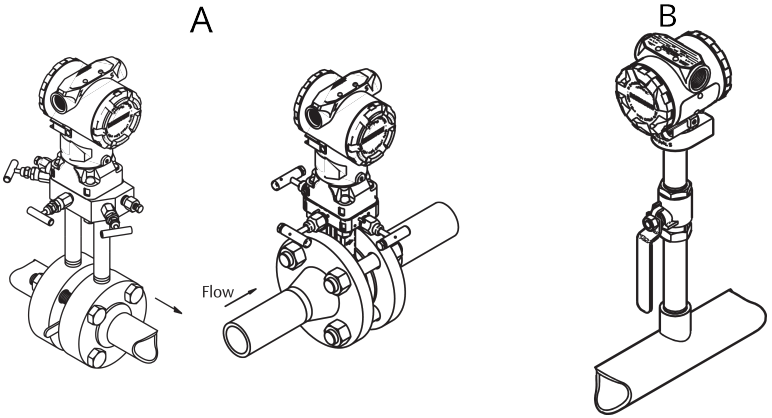
A. Coplanar
B. In–line

3.1.2 Mount the transmitter in gas applications

Procedure

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

Figure 3-2: Coplanar and in-line gas applications



A. Coplanar
B. In–line

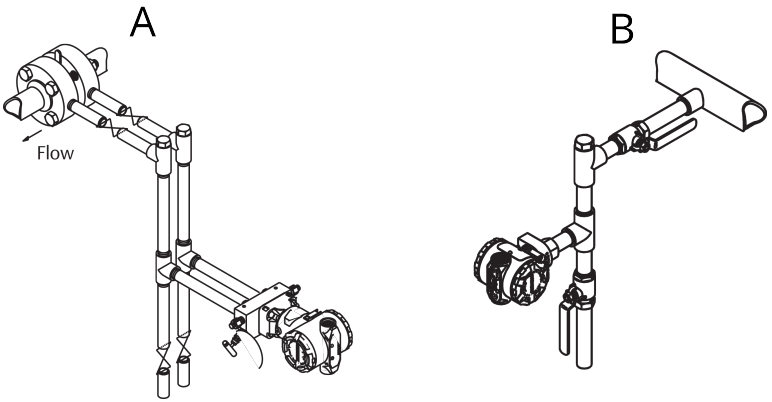
3.1.3 Mount the transmitter in steam applications

Procedure

1. Place taps to the side of the line.
2. Mount the transmitter beside or below the taps.

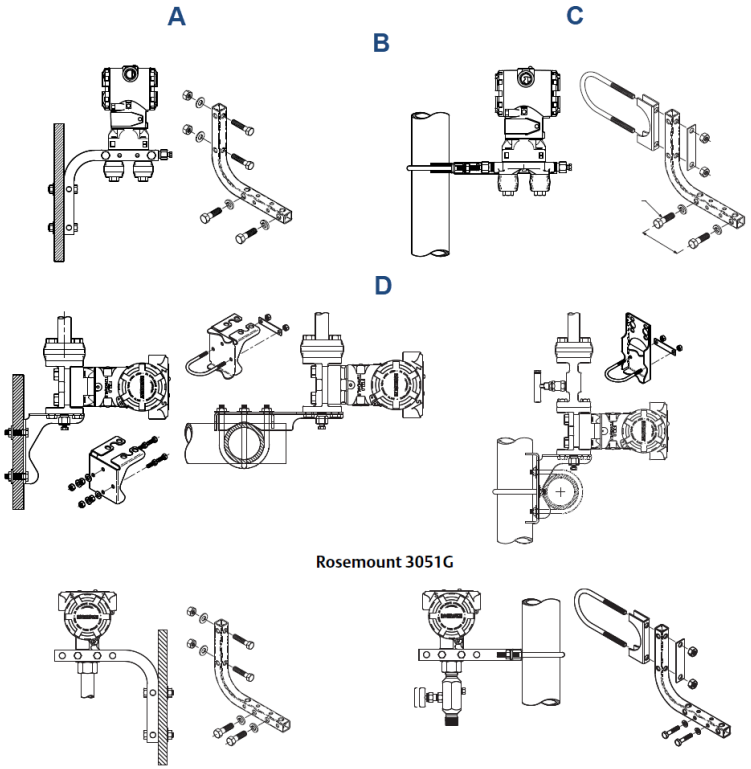
3. Fill impulse lines with water.

Figure 3-3: Coplanar and in-line steam applications



A. Coplanar
B. In–line

Figure 3-4: Panel and pipe mounting



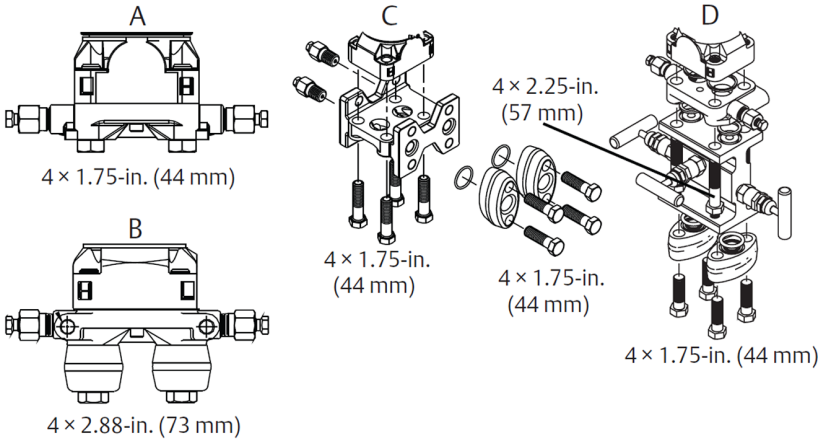
A. Panel mount (5/6 x 1½ in. panel bolts are customer supplied)

B. Coplanar flange
C. Pipe mount
D. Traditional flange

3.1.4 Assemble the transmitter

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. Use only bolts supplied with the transmitter or sold by Emerson as spare parts. Figure 3-5 illustrates common transmitter assemblies with the required bolt lengths.

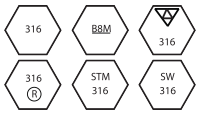
Figure 3-5: Common transmitter assemblies



A. Transmitter with coplanar flange
B. Transmitter with coplanar flange and optional flange adapters
C. Transmitter with traditional flange and optional flange adapters
D. 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 3-1. If bolt material is not shown in Table 3-1, contact a local Emerson representative for more information.

Table 3-1: Torque values for the flange and flange adapter bolts

Bolt material	Head markings	Initial torque	Final torque
CS		300 in-lb	650 in-lb
SST		150 in-lb	300 in-lb

Note

CS bolts do not require lubrication, and SST bolts are coated with a lubricant to ease installation. When installing either type of bolt, do not apply additional lubricant.

Procedure

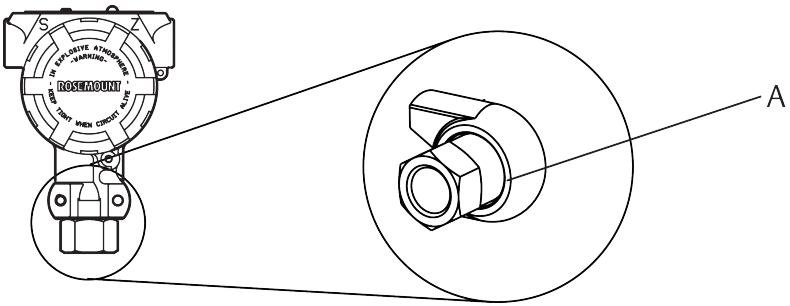
1. Finger-tighten the bolts.
2. Torque the bolts to the initial torque value using a crossing pattern.
   See Table 3-1 for initial torque value.
3. Torque the bolts to the final torque value using the same crossing pattern.
   See Table 3-1 for final torque value.
4. Before applying pressure, verify that the flange bolts are protruding through the isolator plate.

3.1.5 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 3-6)

Mounting the transmitter so that the process can drain away keeps the vent path free of any obstruction, including but not limited to paint, dust, and lubrication.

Figure 3-6: In-line gage low side pressure port



A. Low side pressure port (atmospheric reference)

3.1.6 Consider housing rotation

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

Procedure

1. Loosen the housing rotation set screw using a $\frac{5}{64}$ in. hex wrench.
2. Turn the housing left or right maximum up to 180° from its original position.[1]

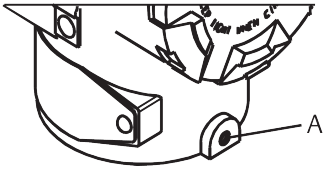
CAUTION

Over-rotating can damage the transmitter.

1. *Rosemount 3051D original position aligns with "H" side; Rosemount 3051G original position is the opposite side of bracket holes.*

3. When desired location is reached, re-tighten the housing rotation set screw to no more than 7 in-lb.

Figure 3-7: Housing rotation set screw



A. Housing rotation set screw ($\frac{5}{64}$ in.)

CAUTION

Over-rotation of housing may cause damage to module communication cable.

3.2 Set the switches

Procedure

1. Set alarm and security switch configuration before installation as shown in Figure 3-8.
2. If the transmitter is installed, secure the loop and remove power.
3. Remove the housing cover opposite the field terminal side.

Note

Do not remove the instrument cover in explosive atmospheres when the circuit is live.

4. Slide the security and alarm switches into the preferred position using a small screwdriver.

NOTICE

The alarm switch sets the analog output alarm to **High** or **Low**. Default alarm is **High**.

NOTICE

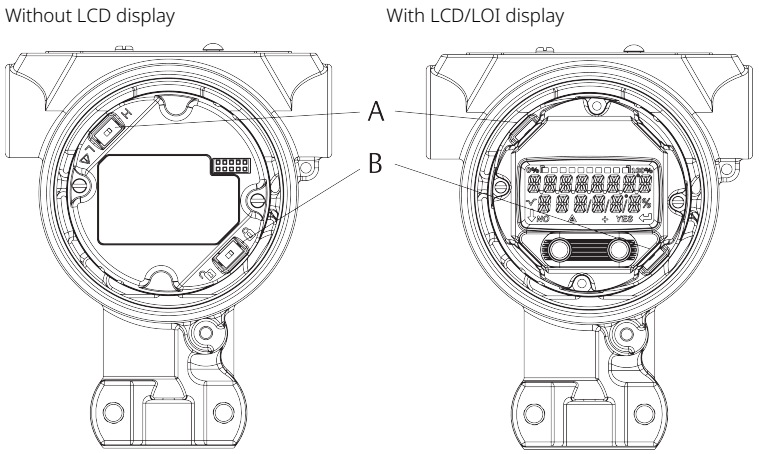
The security switch allows (unlocked symbol) or prevents (locked symbol) any configuration of the transmitter. Default security is **Off** (unlocked symbol).

5. Reattach the transmitter cover.

Note

The cover must be fully engaged to comply with explosion-proof requirements.

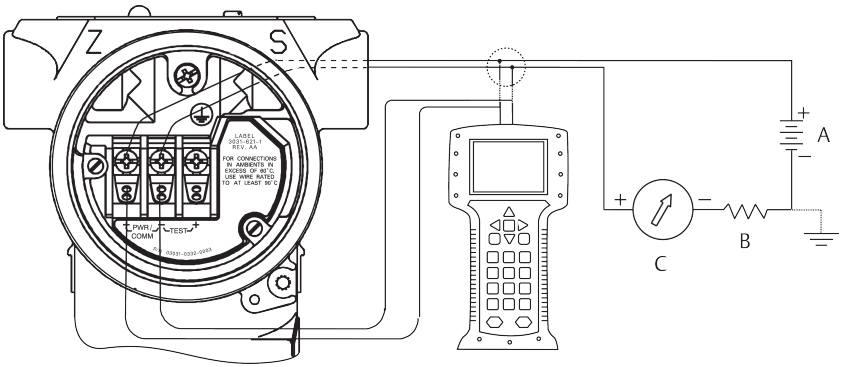
Figure 3-8: Transmitter electronics board



A. Alarm
B. Security

3.3 Connect the wiring and power up

Figure 3-9: Transmitter wiring diagrams (4–20 mA)



A. 24 Vdc supply
B. $R_L \geq 250$
C. Current meter (optional)

Shielded twisted pair cable should be used for best results. Use 24 AWG or larger wire that does not exceed 5,000 ft. (1500 m) in length. If applicable, install wiring with a drip loop. Arrange the drip loop so the bottom is lower than the conduit connections and the transmitter housing.

CAUTION

Installation of the transient protection terminal block does not provide transient protection unless the Rosemount 3051 case is properly grounded.

Do not run signal wiring in conduit or open trays with power wiring, or near heavy electrical equipment.

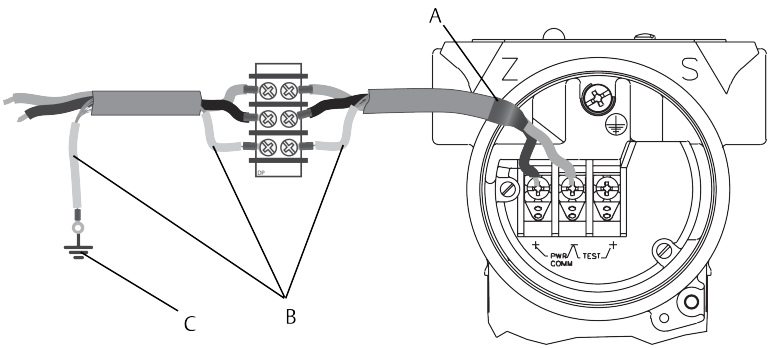
Do not connect the powered signal wiring to the test terminals. Power could damage the test diode in the terminal block.

To wire the transmitter:

Procedure

1. Remove the housing cover on the field terminals side.
2. Connect the positive lead to the "+" terminal (PWR/COMM) and the negative lead to the "–" terminal.
3. Ground housing to fulfill local grounding regulations.
4. Ensure proper grounding. It is important that the instrument cable shield be:
   a. Trimmed close and insulated from touching the transmitter housing
   b. Connected to the next shield if cable is routed through a junction box
   c. Connected to a good earth ground at the power supply end
5. If transient protection is needed, refer to Grounding for transient terminal block for grounding instructions.
6. Plug and seal unused conduit connections.
7. Replace the housing cover.

Figure 3-10: Wiring



A. Insulate shield and shield drain wire.
B. Insulate exposed shield drain wire.
C. Connect shield back to the power supply ground.

3.3.1 Grounding for transient terminal block

Ground termination is provided on the outside of the electronics housing and inside the terminal compartment. These grounds are used when the transient protection terminal blocks are installed. It is recommended that 18 AWG or larger wire is used to connect housing ground to earth ground (internal or external).

If the transmitter is currently not wired for power up and communication, follow Connect the wiring and power up. When the transmitter is properly wired, refer to Figure 3-10 for internal and external transient grounding locations.

3.4 Verifying configuration

Verify the configuration using any HART®-capable configuration tool. Configuration instructions for a Field Communicator are included in this step. See Rosemount 3051 Reference Manual for configuration instructions using AMS Device Manager.

3.4.1 Verifying configuration with a Field Communicator

A Rosemount 3051 DD must be installed on the Field Communicator to verify configuration. Fast Key sequences for the latest DD are shown in Table 2-2. For Fast Key sequences using legacy DD's, contact your local Emerson representative.

Note

Emerson recommends installing the latest DD to access the complete functionality. Visit Field Communicator for information on updating the DD library.

Procedure

Verify device configuration using the Fast Key sequences in Table 2-2.

- A check (✓) indicates the basic configuration parameters. At minimum, these parameters should be verified as part of configuration and startup.
- A (7) indicates availability only in HART® Revision 7 mode.

	Function	Fast Key sequence	
		HART® 7	HART 5
✓	Alarm and Saturation Levels	2, 2, 2, 5, 7	2, 2, 2, 5, 7
✓	Damping	2, 2, 1, 1, 5	2, 2, 1, 1, 5
✓	Range Values	2, 2, 2,	2, 2, 2
✓	Tag	2, 2, 7, 1, 1	2, 2, 7, 1, 1
✓	Transfer Function	2, 2, 1, 1, 6	2, 2, 1, 1, 6
✓	Units	2, 2, 1, 1, 4	2, 2, 1, 1, 4
	Burst Mode	2, 2, 5, 3	2, 2, 5, 3
	Custom Display Configuration	2, 2, 4	2, 2, 4
	Date	2, 2, 7, 1, 4	2, 2, 7, 1, 3
	Descriptor	2, 2, 7, 1, 5	2, 2, 7, 1, 4
	Digital to Analog Trim (4–20 mA output)	3, 4, 2	3, 4, 2
	Disable Configuration Buttons	2, 2, 6, 3	2, 2, 6, 3
	Rerange with Keypad	2, 2, 2, 1	2, 2, 2, 1
	Loop Test	3, 5, 1	3, 5, 1
	Lower Sensor Trim	3, 4, 1, 2	3, 4, 1, 2
	Message	2, 2, 7, 1, 6	2, 2, 7, 1, 5
	Scaled D/A Trim (4–20 mA output)	3, 4, 2	3, 4, 2

	Function	Fast Key sequence	
		HART® 7	HART 5
	Sensor Temperature/Trend (Rosemount 3051S)	3, 3, 3	3, 3, 3
	Upper Sensor Trim	3, 4, 1, 1	3, 4, 1, 1
	Digital Zero Trim	3, 4, 1, 3	3, 4, 1, 3
	Password	2, 2, 6, 5	2, 2, 6, 4
	Scaled Variable	3, 2, 2	3, 2, 2
	HART revision 5 to HART Revision 7 switch	2, 2, 5, 2, 3	2, 2, 5, 2, 3
✓	Long Tag	2, 2, 7, 1, 2	N/A
✓	Find Device	3, 4, 5	N/A
✓	Simulate Digital Signal	3, 4, 5	N/A

Note

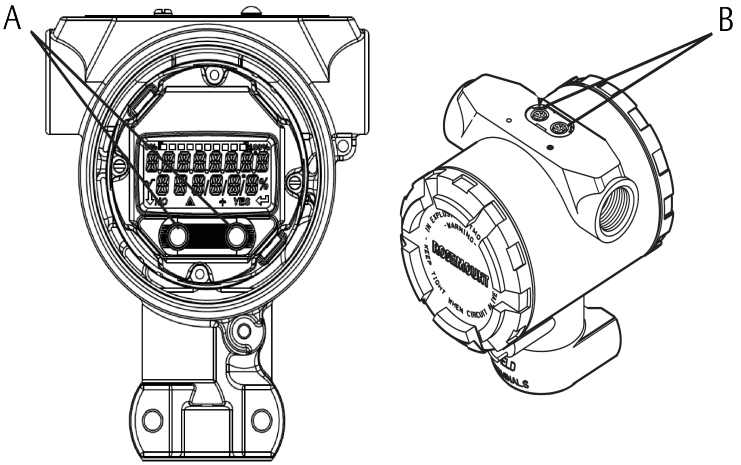
See Figure 3-10 to confirm external button functionality.

3.4.2 Verify configuration with local operator interface (LOI)

The optional local operator interface (LOI) can be used for commissioning the device. The LOI is a two button design with internal and external buttons. The internal buttons are located on the display of the transmitter, while the external buttons are located underneath the top metal tag. LOI button functionality is shown on the bottom corners of the display.

To activate the LOI, push any button. See Table 3-2 and Figure 3-12 for button operation and menu information.

Figure 3-11: Internal and external LOI buttons



A. Internal buttons
B. External buttons

Table 3-2: LOI button operation

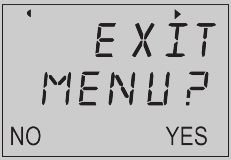
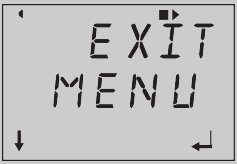
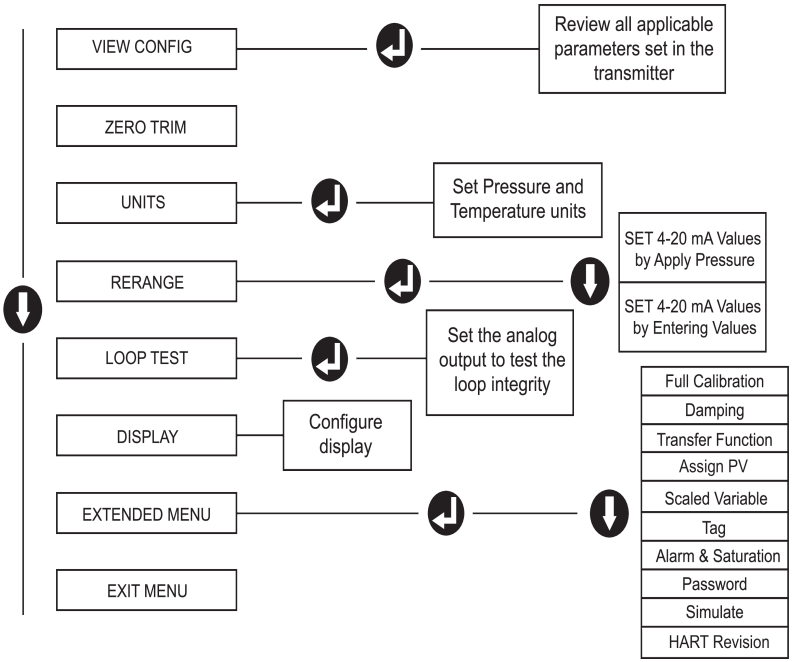
Button		
Left	No	SCROLL
Right	Yes	ENTER

Figure 3-12: LOI menu



3.4.3 Switch HART® revision mode

If the HART configuration tool is not capable of communicating with HART Revision 7, the Rosemount 3051 will load a generic menu with limited capability. The following procedures will switch the HART revision mode from the generic menu:

Procedure

Manual Setup → Device Information → Identification → Message

a. To change to HART Revision 5, Enter: **HART5** in the Message field

b. To change to HART Revision 7, Enter: **HART7** in the Message field

3.5 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 Device Manager, see the Rosemount 3051 Reference Manual.

NOTICE

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

Procedure

1. Choose your trim procedure.
   - Analog zero trim – Sets the analog output to 4 mA.
2. Also referred to as a "rerange", it sets the lower range value (LRV) equal to the measured pressure.
3. The display and digital HART output remains unchanged.
   - Digital zero trim – Recalibrates the sensor zero.
4. The LRV is unaffected. The pressure value will be zero (on display and HART® output). 4 mA point may not be at zero.
5. This requires that the factory calibrated zero pressure is within a range of 3% of the URV [0 + 3% x URV].
   Example: URV = 250 inH_2O Applied Zero Pressure = + 0.03 x 250 inH_2O = + 7.5 inH_2O (compared to factory settings) values outside this range will be rejected by the transmitter.

3.5.1 Trimming with a Field Communicator

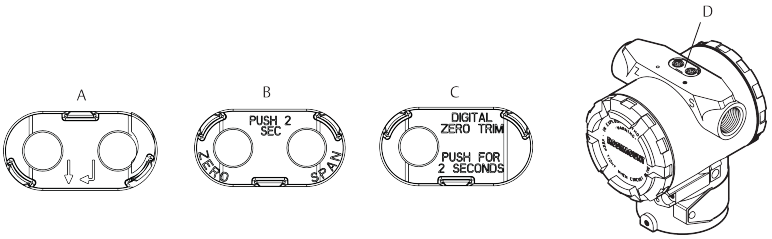
Procedure

1. Connect the Field Communicator. See Connect the wiring and power up for instructions.
2. Follow the HART® menu to perform the desired zero trim.

Table 3-3: Zero trim fast keys

	Analog zero (Set 4 mA)	Digital zero
Fast Key sequence	3, 4, 2	3, 4, 1, 3

Figure 3-13: External configuration buttons



A. LOI
B. Analog zero and span
C. Digital zero
D. Configuration buttons

Perform trim with LOI (option M4) for a zero trim.

3. Set the transmitter pressure.
4. See Figure 3-12 for the operating menu.
   a. Perform an analog zero trim by selecting **Rerange**.
   b. Perform a digital zero trim by selecting **Zero Trim**.

4 Safety instrumented systems installation

For safety certified installations, refer to the Rosemount 3051 Reference Manual for installation procedure and system requirements.

5 Rosemount 3051D Product certifications

Rev 3.10

5.1 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.

5.2 Europe

5.2.1 E8 ATEX Flameproof and Dust

Certificate DEKRA12ATEX0212X (Ex d); Baseefa12ATEX0191 (Ex ta)

Markings


II 1/2 G Ex db IIC T6...T4 Ga/Gb
T6 (–60 °C ≤ T_a ≤ +70 °C)
T5/T4 (–60 °C ≤ T_a ≤ +80 °C)


II 1 D Ex ta IIIC T $_{200}$ 105 °C
Da (–20 °C ≤ T_a ≤ +85 °C)
V_{max} = 42.4 Vdc

Table 5-1: Process temperature

Temperature class	Process connection temperature	Ambient temperature
T6	–60 to +70 °C	–60 to +70 °C
T5	–60 to +80 °C	–60 to +80 °C
T4	–60 to +120 °C	–60 to +80 °C

5.2.2 Special Conditions for Safe Use (X):

1. This device contains a thin wall diaphragm less than 1 mm thickness that forms a boundary between Category 1 (process connection) and Category 2 (all other parts of the equipment). The model code and datasheet are to be consulted for details of the diaphragm material. Installation, maintenance and use shall take into account the environmental conditions to which the diaphragm will be subjected. The manufacturer's instructions for installation and maintenance shall be followed in detail to assure safety during its expected lifetime.
2. Flameproof joints are not intended to be repaired.
3. Non-standard paint options may cause risk from electrostatic discharge. Avoid installations that could cause electrostatic build-up on painted surfaces and only clean the

painted surfaces with a damp cloth. If paint is ordered through a special option code, contact the manufacturer for more information.

4. Some variants of the equipment have reduced markings on the nameplate. Refer to the Certificate for full equipment marking.

5. Appropriate cable, glands, and plugs need to be suitable for a temperature of 5 °C greater than maximum specified temperature for location where installed.

5.2.3 I1 ATEX Intrinsic Safety and Dust

Certificate Baseefa12ATEX0189X; Baseefa12ATEX0191

Markings:  II 1 G Ex ia IIC T4 Ga (–60 °C ≤ T_a≤ +70 °C)

 II 1 D Ex ta IIIC T_{200}105 °C Da (–20 °C ≤ T_a≤ +85 °C)

Table 5-2: Input parameters

Parameters	HART®
Voltage U_i	30 V
Current I_i	200 mA
Power P_i	1.0 W
Capacitance C_i	0.012 µF
Inductance L_i	0 mH

5.2.4 Special Conditions for Safe Use (X):

1. The equipment is not capable of withstanding the 500 V insulation test required by clause 6.3.13 of EN60079-11: 2012. This must be taken into account when installing the equipment.

2. The enclosure may be made of aluminum alloy and given a protective polyurethane paint finish; however, care must be taken to protect it from impact or abrasion if located in Zone 0.

3. Some variants of the equipment have reduced markings on the nameplate. Refer to the Certificate for full equipment marking.

5.2.5 N1 ATEX Type n and Dust

Certificate Baseefa12ATEX0190X; Baseefa12ATEX0191

Markings  II 3 G Ex nA IIC T5 Gc (–40 °C ≤ T_a ≤ +70 °C)

 II 1 D Ex ta IIIC T_{200} 105 °C Da (–20 °C ≤ T_a ≤ +85 °C)

5.2.6 Special Conditions for Safe Use (X):

1. The equipment is not capable of withstanding the 500 V insulation test required by clause 6.5.1 of EN60079-15: 2010. This must be taken into account when installing the equipment.

2. Some variants of the equipment have reduced markings on the nameplate. Refer to the Certificate for full equipment marking.

5.3 International

5.3.1 E7 IECEx Flameproof and Dust

Certificate IECEx DEK 12.0067X (Ex d); IECEx BAS 12.0109 (Ex ta)

Markings Ex db IIC T6...T4 Ga/Gb
T6 (–60 °C ≤ T_a ≤ +70 °C)
T5/T4 (–60 °C ≤ T_a ≤ +80 °C)
Ex ta IIIC T_{200} 105 °C Da (–20 °C ≤ T_a ≤ +85 °C)

Table 5-3: Process temperature

Temperature class	Process connection temperature	Ambient temperature
T6	–60 to +70 °C	–60 to +70 °C
T5	–60 to +80 °C	–60 to +80 °C
T4	–60 to +120 °C	–60 to +80 °C

5.3.2 Special Conditions for Safe Use (X):

1. This device contains a thin wall diaphragm with less than 1 mm thickness that forms a boundary between Zone 0 (process connection) and Zone 1 (all other parts of the equipment). The model code and data sheet are to be consulted for details of the diaphragm material. Installation, maintenance, and use shall take into account the environmental conditions to which the diaphragm will be subjected. The manufacturer's instructions for installation and maintenance shall be followed in detail to assure safety during its expected lifetime.
2. Flameproof joints are not intended to be repaired.
3. Some variants of the equipment have reduced markings on the nameplate. Refer to the Certificate for full equipment marking.
4. Appropriate cable, glands and plugs need to be suitable for a temperature of 5 °C greater than maximum specified temperature for location where installed.

5.3.3 I7 IECEx Intrinsic Safety

Certificate IECEx BAS 12.0107X

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

Table 5-4: Input parameters

Parameters	HART®
Voltage U_i	30 V
Current I_i	200 mA
Power P_i	1.0 W
Capacitance C_i	0.012 µF
Inductance L_i	0 mH

5.3.4 Special Conditions for Safe Use (X):

1. The equipment is not capable of withstanding the 500 V insulation test required by clause 6.3.13 of IEC60079-11: 2011. This must be taken into account when installing the apparatus.

2. The enclosure may be made of aluminum alloy and given a protective polyurethane paint finish; however, care must be taken to protect it from impact or abrasion if located in Zone 0.

5.3.5 N7 IECEx Type n

Certificate IECEx BAS 12.0108X

Markings Ex nA IIC T5 Gc (–40 °C ≤ T_a ≤ +70 °C)

5.3.6 Special Condition for Safe Use (X):

1. The apparatus is not capable of withstanding the 500 V insulation test required by IEC60079-15. This must be taken into account when installing the apparatus.

5.4 China

5.4.1 E3 China Flameproof

Certificate GYJ22.3617X

Markings Ex db IIC T6···T4 Ga/Gb，Ex ta IIIC T_{200} 105 °C Da

5.4.2 证书编号后缀"X"表明产品具有安全使用特殊条件：

1. 涉及隔爆接合面的维修须联系产品制造商。
2. 此产品在0区（过程连接）和1区（设备其他部分）之间设有不足1mm厚的隔离膜片，在安装和维护时须严格遵守说明书要求，防止损坏。
3. 产品表面喷漆可能导致静电放电，只能使用湿布清洁表面。
4. 用于爆炸性气体环境时，产品过程温度和环境温度间的关系为：

过程温度	环境温度	温度组别
–60 °C ≤ T_a ≤ +70 °C	–60 °C ≤ T_a ≤ +70 °C	T6
–60 °C ≤ T_a ≤ +80 °C	–60 °C ≤ T_a ≤ +80 °C	T5
–60 °C ≤ T_a ≤ +120 °C	–60 °C ≤ T_a ≤ +120 °C	T4

5. 用于爆炸性粉尘环境时，产品环境温度范围为：–20℃≤T_a≤+85℃

5.4.3 产品使用注意事项

1. 产品外壳设有接地端子，用户在使用时应可靠接地。
2. 安装现场应不存在对产品外壳有腐蚀作用的有害气体。
3. 现场安装时，电缆引入口须选用经国家指定的防爆检验机构检验认可、具有Ex dbIIC Gb、Ex ta IIIC Da防爆等级的电缆引入装置或堵封件，冗余电缆引入口须用堵封件有效密封。
4. 用于爆炸性气体环境中，现场安装、使用和维护必须严格遵守"断电后开盖！"的警告语。用于爆炸性粉尘环境中，现场安装、使用和维护必须严格遵守"爆炸性粉尘场所严禁开盖！"的警告语。
5. 用于爆炸性粉尘环境中，产品外壳表面需保持清洁，以防粉尘堆积，但严禁用压缩空气吹扫。
6. 用户不得自行更换该产品的零部件，应会同产品制造商共同解决运行中出现的故障，以杜绝损坏现象的发生。
7. 产品的安装、使用和维护应同时遵守产品使用说明书、GB/T3836.13-2021"爆炸性环境 第13部分：设备的修理、检

修、修复和改造"、GB/T3836.15-2017"爆炸性环境 第15部分：电气装置的设计、选型和安装"、GB/T3836.16-2022"爆炸性环境 第16部分：电气装置的检查与维护"、GB50257-2014"电气装置安装工程爆炸和火灾危险环境电力装置施工及验收规范"和GB15577-2018"粉尘防爆安全规程"的有关规定。

5.4.4 I3 China Intrinsic Safety

Certificate GYJ22.3375X

Markings Ex ia IIC T4 Ga

5.4.5 产品安全使用特殊条件:

1. 产品选用铝合金外壳，使用时需注意防止由于冲击或摩擦产生的点燃危险。
2. 此设备不能承受500V交流有效值试验电压的介电强度试验。
3. 产品使用环境温度范围： –60℃～+70℃

5.4.6 产品使用注意事项:

1. 本安电气参数：

最高输入电压U_i (V)	最大输入电流I_i (mA)	最大输入功率P_i (W)	最大内部等效参数	
			C_i (nF)	L_i (mH)
30	200	0.9	12	0

2. 已通过防爆认证的关联设备配套共同组成本安防爆系统方可使用于爆炸性气体环境。其系统接线必须同时遵守本产品和所配关联设备的使用说明书要求，接线端子不得接错。
3. 用户不得自行更换该产品的零部件，应会同产品制造商共同解决运行中出现的故障，以杜绝损坏现象的发生。
4. 产品的安装、使用和维护应同时遵守产品使用说明书、GB/T3836.13-2021"爆炸性环境 第13部分：设备的修理、

检修、修复和改造"、GB/T3836.15-2017"爆炸性环境 第15部分：电气装置的设计、选型和安装"、GB/T3836.16-2022"爆炸性环境 第16部分：电气装置的检查与维护"、GB50257-2014"电气装置安装工程爆炸和火灾危险环境电力装置施工及验收规范"的有关规定。

5.4.7 N3 China Type n

Certificate GYJ23.1148X

Markings Ex ec IIC T5 Gc

5.4.8 产品安全使用特殊条件

1. 此设备不能承受500V交流有效值介电强度试验，安装时需考虑在内。
2. 产品使用环境温度范围：–40℃～+70℃

5.4.9 产品使用注意事项

1. 最高输入电压：42.4V d.c.
2. 产品外壳设有接地端子，用户在安装使用时应可靠接地。
3. 现场安装时，电缆引入口须选用国家指定的防爆检验机构按检验认可、具有Ex ec IIC防爆等级且达到IP54外壳防护等级的电缆引入装置或堵封件，冗余电缆引入口须用堵封件有效密封。
4. 用户不得自行更换该产品的零部件，应会同产品制造商共同解决运行中出现的故障，以杜绝损坏现象的发生。
5. 产品的安装、使用和维护应同时遵守产品使用说明书、GB/T3836.13-2021"爆炸性环境 第13部分：设备的修理、检修、修

复和改造"、GB/T3836.15-2017"爆炸性环境 第15部分：电气装置的设计、选型和安装"、GB/T3836.16-2022"爆炸性环境 第16部分：电气装置的检查与维护"、GB/T 3836.18-2017"爆炸性环境 第18部分：本质安全电气系统"和GB50257-2014"电气装置安装工程爆炸和火灾危险环境电力装置施工及验收规范"的有关规定。

5.5 Combinations

K7	Combination of E7, I7, and N7
K8	Combination of E8, I1, and N1

6 Rosemount 3051G Product certifications

6.1 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.

6.2 Ordinary Certification Location

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).

6.3 North America

6.3.1 E5 USA Explosion–proof (XP) and Dust Ignition–proof (DIP)

Certificate	1053834
Markings	XP: CL I, DIV 1, GP B, C, D T5; SEAL NOT REQUIRED DIP: CL II, DIV 1, GP E, F, G; CL III T5; –50 °C ≤ T_a ≤ +85 °C TYPE 4X IP 68 OPTIONAL SINGLE SEAL

6.3.2 Specific Conditions for Use:

1. The Rosemount 3051 Transmitter housing contains 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.
2. Equipment evaluated for atmospheric pressure range between 80 kPa (0.8 bar) to 110 kPa (1.1 bar).
3. Process temperature limits shall be in accordance with 03031-1053.
4. Flameproof joints are not intended to be repaired.

6.3.3 I5 USA Intrinsic Safety (IS) and Nonincendive (NI)

Certificate	1053834
Markings	IS: CL I GP ABCD T4 IS: CL II GP EFG CL III T4 CL I ZN 0 AEx ia IIC T4 Ga NI: CL 1 DIV 2 GP ABCD T4 -60 °C ≤ Ta ≤ +70 °C OPTIONAL SINGLE SEAL TYPE 4X IP 68 INSTALL PER 03031-1024

6.3.4 Specific Conditions for Use:

1. The Rosemount 3051G transmitter housing may contain 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.

2. The Rosemount 3051G with the transient terminal block (option code T1) will not pass the 500 Vrms dielectric strength test; this must be taken into account during installation.
3. Equipment evaluated for atmospheric pressure range between 80 kPa (0.8 bar) to 110 kPa (1.1 bar).
4. Maximum process temperature limits shall be in accordance with 03031-1053.

6.3.5 C6 Canada Explosion–proof, Dust Ignition–proof, Intrinsic Safety, and Division 2

Certificate	1053834
Markings	XP: CL I DIV 1 GP B, C, D T5 Ex db IIC T5 Gb SEAL NOT REQUIRED DIP: CL II, DIV 1, GP E, F, G; CL III T5; T5: -50 °C ≤ Ta ≤ 85 °C IS: CL I GP ABCD T4 IS: CL II GP EFG, CL III T4 Ex ia IIC T4 Ga NI: CL I DIV 2 GP ABCD T4 T4: -60 °C ≤ Ta ≤ +70 °C INSTALL PER 03031-1024 (IS/NI ONLY) SINGLE SEAL - TEMP LIMITS PER 03031-1053 TYPE 4X, IP 68

6.3.6 Specific Conditions for Use:

1. The Rosemount 3051 Transmitter housing contains 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.
2. Equipment evaluated for atmospheric pressure range between 80 kPa (0.8 bar) to 110 kPa (1.1 bar).
3. The Rosemount 3051 Transmitter with the transient terminal block (Option code T1) will not pass the 500 Vrms dielectric strength test, and this must be taken into account during installation.
4. Flameproof joints are not intended to be repaired.

6.3.7 E6 Canada Explosion–proof, Dust Ignition–proof, and Division 2

Certificate	1053834
Markings	XP: CL 1, DIV 1, GP B, C, D T5 Ex db IIC T5 Gb SEAL NOT REQUIRED DIP: CL II, DIV 1, GP E, F, G, CL III T5 T5: -50 °C ≤ Ta ≤ +85 °C NI: CL I DIV 2 GP ABCD T4 T4: -60 °C ≤ Ta ≤ +70 °C SINGLE SEAL - TEMP LIMITS PER 03031-1053 TYPE 4X, IP 68

6.3.8 Specific Conditions for Use:

1. The Rosemount 3051 Transmitter housing contains 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.
2. Equipment evaluated for atmospheric pressure range between 80 kPa (0.8 bar) to 110 kPa (1.1 bar).
3. Flameproof joints are not intended to be repaired.

6.4 Europe

6.4.1 E8 ATEX Flame–proof and Dust–proof

Certificate KEMA97ATEX2378X; BAS01ATEX1427X

Markings  II 1/2 G Ex db IIC T6...T4 Ga/Gb
T6 (–60 °C ≤ T_a ≤ +70 °C)
T5/T4 (–60 °C ≤ T_a ≤ +80 °C)
 II 1 D Ex t IIIC T50 °C T_{500} 60 °C Da

Table 6-1: Process connection temperature

Temperature class	Process connection temperature	Ambient temperature
T6	–60 to +70 °C	–60 to +70 °C
T5	–60 to +80 °C	–60 to +80 °C
T4	–50 to +120 °C	–60 to +80 °C

6.4.2 Special Conditions for Safe Use (X):

1. This device contains a thin wall diaphragm with less than 1 mm thickness that forms a boundary between Zone 0 (process connection) and Zone 1 (all other parts of the equipment). The model code and data sheet are to be consulted for details of the diaphragm material. Installation, maintenance, and use shall take into account the environmental conditions to which the diaphragm will be subjected. The manufacturer's instructions for installation and maintenance shall be followed in detail to assure safety during its expected lifetime.
2. Flameproof joints are not intended to be repaired.
3. Non-standard paint options may cause risk from electrostatic discharge. Avoid installations that could cause electrostatic build-up on painted surfaces and only clean the painted surfaces with a damp cloth. If paint is ordered through a special option code, contact the manufacturer for more information.
4. Appropriate cable, glands, and plugs need to be suitable for a temperature of 5 °C greater than maximum specified temperature for location where installed.
5. The user must ensure that the maximum rated voltage and current (36 volts, 24 milliamps, d.c.) are not exceeded. All connections to other apparatus or associated apparatus shall have control over this voltage and current equivalent to a category 'ib' circuit according to EN 50020.
6. Cable entries must be used which maintain the ingress protection of the enclosure to at least IP66.
7. Unused cable entries must be filled with suitable blanking plugs which maintain the ingress protection of the enclosure to at least IP66.
8. Cable entries and blanking plugs must be suitable for the ambient range of the apparatus and capable of withstanding a 7J impact test.
9. Rosemount 2088/2090 sensor module must be securely screwed in place to maintain the ingress protection of the enclosure.
10. Some variants of the equipment have reduced markings on the nameplate. Refer to the Certificate for full equipment marking.

6.4.3 I1 ATEX Intrinsic Safety and Dust

Certificate BAS00ATEX1166X

Markings  II 1 G Ex ia IIC T4 Ga (–55 °C ≤ T_a ≤ +70 °C)

Table 6-2: Input parameters

Parameters	HART®
Voltage U_i	30 V
Current I_i	200 mA
Power P_i	1.0 W
Capacitance C_i	8 nF
Inductance L_i	0 mH

6.4.4 Special Conditions for Safe Use (X):

1. When fitted with a transient suppression terminal block, the equipment is not capable of withstanding the 500 V insulation test. This must be taken into account during installation.
2. The enclosure may be made of aluminum alloy and given a protective polyurethane paint finish; however, care must be taken to protect it from impact or abrasion if located in Zone 0.

6.4.5 N1 ATEX Type n and Dust

Certificate BAS00ATEX3167X; BAS01ATEX1427X

Markings  II 3 G Ex nA IIC T5 Gc (–40 °C ≤ T_a ≤ +70 °C)

 II 1 D Ex t IIIC T50 °C T_{500} 60 °C Da

6.4.6 Special Conditions for Safe Use (X):

1. This apparatus is not capable of withstanding the 500 V insulation test that is required by EN60079-15. This must be taken into account when installing the apparatus.
2. Some variants of the equipment have reduced markings on the nameplate. Refer to the Certificate for full equipment marking.

6.5 International

6.5.1 E7 IECEx Flame–proof

Certificate IECEx KEM 06.0021X

Markings Ex db IIC T6...T4 Ga/Gb
T6 (–60 °C ≤ T_a ≤ +70 °C)
T5/T4 (–60 °C ≤ T_a ≤ +80 °C)

Temperature class	Process connection temperature	Ambient temperature
T6	–60 to +70 °C	–60 to +70 °C
T5	–60 to +80 °C	–60 to +80 °C
T4	–50 to +120 °C	–60 to +80 °C

6.5.2 Special Conditions for Safe Use (X):

1. This device contains a thin wall diaphragm with less than 1 mm thickness that forms a boundary between Zone 0 (process connection) and Zone 1 (all other parts of the

equipment). The model code and data sheet are to be consulted for details of the diaphragm material. Installation, maintenance, and use shall take into account the environmental conditions to which the diaphragm will be subjected. The manufacturer's instructions for installation and maintenance shall be followed in detail to assure safety during its expected lifetime.

2. Flameproof joints are not intended to be repaired.
3. Non-standard paint options may cause risk from electrostatic discharge. Avoid installations that could cause electrostatic build-up on painted surfaces and only clean the painted surfaces with a damp cloth. If paint is ordered through a special option code, contact the manufacturer for more information.
4. Appropriate cable, glands and plugs need to be suitable for a temperature of 5 °C greater than maximum specified temperature for location where installed.

6.5.3 I7 IECEx Intrinsic Safety

Certificate IECEx BAS 12.0071X

Markings Ex ia IIC T4 Ga (55 °C ≤ T_a ≤ +70 °C)

Table 6-3: Input parameters

Parameters	HART®
Voltage U_i	30 V
Current I_i	200 mA
Power P_i	1.0 W
Capacitance C_i	8 nF
Inductance L_i	0 mH

6.5.4 Special Conditions for Safe Use (X):

1. If the apparatus is fitted with an optional 90 V transient suppressor, it is not capable of withstanding the 500 V insulation test required by IEC60079-11. This must be taken into account when installing the apparatus.
2. The enclosure may be made of aluminum alloy and given a protective polyurethane paint finish; however, care must be taken to protect it from impact or abrasion if located in Zone 0.

6.5.5 N7 IECEx Type n

Certificate IECEx BAS 12.0072X

Markings Ex nA IIC T5 Gc (–40 °C ≤ T_a ≤ +70 °C)

6.5.6 Special Condition for Safe Use (X):

1. When fitted with a transient suppression terminal block, the Rosemount 2088 is incapable of passing the 500 V isolation test. This must be taken into account when installing the apparatus.

6.6 Brazil

6.6.1 E2 INMETRO Flame-proof

Certificate	UL-BR 15.0728X (BRMC) UL-BR 22.3472X (RSK) UL-BR 22.3473X (SMMC)
Markings	Ex db IIC T6...T4 Ga/Gb T4/T5 (–60 °C ≤ T_a ≤ +80 °C) T6 (–60 °C ≤ T_a ≤ +70 °C)

6.6.2 Special Conditions for Safe Use (X):

1. This device contains a thin wall diaphragm with less than 1 mm thickness that forms a boundary between Zone 0 (process connection) and Zone 1 (all other parts of the equipment). The model code and data sheet are to be consulted for details of the diaphragm material. Installation, maintenance, and use shall take into account the environmental conditions to which the diaphragm will be subjected. The manufacturer's instructions for installation and maintenance shall be followed in detail to assure safety during its expected lifetime.
2. Flameproof joints are not intended to be repaired.
3. Non-standard paint options may cause risk from electrostatic discharge. Avoid installations that could cause electrostatic build-up on painted surfaces and only clean the painted surfaces with a damp cloth. If paint is ordered through a special option code, contact the manufacturer for more information.

6.7 China

6.7.1 E3 China Flame-proof

Certificate	GYJ25.1166X
Markings	Ex db IIC T6…T4 Ga/Gb

6.7.2 产品安全使用特殊条件

1. 涉及隔爆接合面的维修须联系产品制造商。
2. 产品使用厚度小于1mm的隔膜作为0区（过程连接）和1区（产品其他部分）的隔离，安装和维护时需严格遵守制造商提供的说明书，以确保安全性。
3. 产品外部涂层可能产生静电危险，使用时须防止产生静电火花，只能用湿布清理。
4. 用于爆炸性气体环境中，产品温度组别和使用环境温度之间的关系为：

6.7.3 产品使用注意事项

1. 产品外壳设有接地端子，用户在使用时应可靠接地。
2. 安装现场应不存在对产品外壳有腐蚀作用的有害气体。
3. 现场安装时，电缆引入口须选用经国家指定的防爆检验机构检验认可、具有Ex dIIC Gb防爆等级的电缆引入装置或堵封件，冗余电缆引入口须用堵封件有效密封。

温度组别	使用环境温度	过程温度
T6	–60 °C ~ +70 °C	–60 °C ~ +70 °C
T5	–60 °C ~ +80 °C	–60 °C ~ +80 °C
T4	–60 °C ~ +80 °C	–60 °C ~ +120 °C

4. 用于爆炸性气体环境中，现场安装、使用和维护必须严格遵守"断电后开盖！"的警告语。

5. 用户不得自行更换该产品的零部件，应会同产品制造商共同解决运行中出现的故障，以杜绝损坏现象的发生。

6. 产品的安装、使用和维护应同时遵守产品使用说明书、GB3836.13-2021"爆炸性环境 第13部分：设备的修理、检修、修复和改造"、GB/T3836.15-2017"爆炸性环境 第15部分：电气装置的设计、选型和安装"、GB/T3836.16-2022"爆炸性环境 第16部分：电气装置的检查与维护"、GB50257-2014"电气装置安装工程爆炸和火灾危险环境电力装置施工及验收规范"的有关规定。

6.7.4 I3 China Intrinsic Safety

Certificate	GYJ25.1164X
Standards	GB3836.1-2010, GB3836.4-2010, GB3836.20-2010
Markings	Ex ia IIC T4 Ga (–55 °C ≤ T_a ≤ +70 °C)

6.7.5 产品安全使用特殊条件:

1. 产品选用瞬态保护端子板时，此设备不能承受GB/T 3836.4-2021标准中500V交流有效值试验电压的介电强度试验。

2. 产品外壳材质可以选择铝合金和聚氨酯涂层，在0区使用时须采取有效措施防止由于冲击或摩擦产生的点燃危险。

3. 产品使用环境温度：-55℃～+70℃

6.7.6 产品使用注意事项

1. 本安电气参数：

最高输入电压U_i (V)	最大输入电流I_i (mA)	最大输入功率P_i (W)	最大内部等效参数	
			C_i (nF)	L_i (mH)
30	200	0.9	12	0

2. 该产品必须与已通过防爆认证的关联设备配套共同组成本安防爆系统方可使用于爆炸性气体环境。其系统接线必须同时遵守本产品和所配关联设备的使用说明书要求，接线端子不得接错。

3. 用户不得自行更换该产品的零部件，应会同产品制造商共同解决运行中出现的故障，以杜绝损坏现象的发生。

4. 产品的安装、使用和维护应同时遵守产品使用说明书、GB/T 3836.13-2021"爆炸性环境 第13部分：设备的修理、检修、修复和改造"、GB/T 3836.15-2017"爆炸性环境 第15部分：电气装置的设计、选型和安装"、GB/T3836.16-2017"爆炸性环境 第16部分：电气装置的检查与维护"、GB/T 3836.18-2024"爆炸性环境 第18部分：本质安全电气系统"、GB50257-2014"电气装置安装工程爆炸和火灾危险环境电力装置施工及验收规范"的有关规定。

6.7.7 N3 NEPSI Increased Safety

Certificate	GYJ23.1240XX
Markings	Ex nA IIC T5 Gc (–40 °C ≤ T_a ≤ +70 °C)

6.7.8 产品安全使用特定条件(X):

1. 此设备不能承受500V交流有效值介电强度试验，安装时需考虑在内。

2. 产品使用环境温度范围：–40℃～+70℃

6.7.9 产品使用注意事项

1. 最高输入电压：50V

2. 产品外壳设有接地端子，用户在安装使用时应可靠接地。

3. 现场安装时，电缆引入口须选用国家指定的防爆检验机构按检验认可、具有Ex ec IIC防爆等级且达到IP6X外壳防护等级的电缆引入装置或堵封件，冗余电缆引入口须用堵封件有效密封。

4. 用户不得自行更换该产品的零部件，应会同产品制造商共同解决运行中出现的故障，以杜绝损坏现象的发生。

5. 产品的安装、使用和维护应同时遵守产品使用说明书、GB/T3836.13-2021"爆炸性环境 第13部分：设备的修理、检修、修复和改造"、GB/T3836.15-2017"爆炸性环境 第15部分：电气装置的设计、选型和安装"、GB/T3836.16-2022"爆炸性环境 第16部分：电气装置的检查与维护"和GB50257-2014"电气装置安装工程爆炸和火灾危险环境电力装置施工及验收规范"的有关规定。

6.8 Combinations

K3	Combination of E3 and I3
K5	Combination of E5 and I5
K6	Combination of C6, E8, and I1
K8	Combination of E8, I1, and N1
KB	Combination of E5, I5, and C6
KD	Combination of E8, I1, E5, I5, and C6

6.9 Conduit plugs and adapters

6.9.1 IECEx Flameproof and Increased Safety

Certificate	IECEx FMG 13.0032X
Markings	Ex de IIC Gb

6.9.2 ATEX Flameproof and Increased Safety

Certificate	FM13ATEX0076X
Markings	 II 2 G Ex de IIC Gb

Table 6-4: Conduit plug thread sizes

Thread	Identification mark
M20 x 1.5	M20
½–14 NPT	½ NPT

Table 6-5: Thread adapter thread sizes

Male thread	Identification mark
M20 x 1.5–6g	M20
½–14 NPT	½–14 NPT
¾–14 NPT	¾–14 NPT
Female thread	**Identification mark**
M20 x 1.5–6H	M20
½–14 NPT	½–14 NPT
G½	G½

6.9.3 Special Conditions for Safe Use (X):

1. When the thread adapter or blanking plug is used with an enclosure in type of protection increased safety "e," the entry thread shall be suitably sealed in order to maintain the ingress protection rating (IP) of the enclosure.
2. The blanking plug shall not be used with an adapter.
3. Blanking plug and threaded adapter shall be either NPT or metric thread forms. G½ thread forms are only acceptable for existing (legacy) equipment installations.

6.10 India

6.10.1 EW India Flameproof

Certificate	P579499
Markings	Ex db IIC T6...T4 Ga/Gb

6.10.2 IW India Intrinsic Safety

Certificate	P581276
Markings	Ex ia IIC T4 Ga

7 Declaration of Conformity

EMERSON

EU Declaration of Conformity

No: RMD 1089 Rev. M

CE

We,

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

declare under our sole responsibility that the product,

Rosemount™ Models 3051D and 3051G 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 Community 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 name - printed)
Mark Lee (name - printed)	June 14, 2023 (date of issue)

EMERSON

EU Declaration of Conformity

No: RMD 1089 Rev. M

CE

EMC Directive (2014/30/EU)

All Models 3051D and 3051G Pressure Transmitters
EN 61326-1:2013
EN 61326-2-3:2013

PED Directive (2014/68/EU)

Models 3051DP2, 3, 4, 5 with C-276 Isolators or options P7 or P9 Pressure Transmitters
QS Certificate of Assessment - EC Certificate No. 12698-2018-CE-ACCREDIA
Module H Conformity Assessment
Other Standards Used: ANSI/ISA61010-1:2004

All other model 3051D and 3051G Pressure Transmitters
Sound Engineering Practice

Transmitter Attachments: Diaphragm Seal - Process Flange - Manifold
Sound Engineering Practice

RoHS Directive (2011/65/EU)

Models 3051D and 3051G Pressure Transmitters
Harmonized Standard: EN IEC 63000:2018

ATEX Directive (2014/34/EU)

Model 3051D Pressure Transmitter

Baseefa12ATEX0189X - Intrinsic Safety Certificate
Equipment Group II Category 1 G
Ex ia IIC T4 Ga (-60°C ≤ Ta ≤ +70°C)
Harmonized Standards Used:
EN IEC 60079-0: 2018, EN 60079-11: 2012

Baseefa12ATEX0190X - Type n Certificate
Equipment Group II Category 3 G
Ex nA IIC T5 Gc (-40°C ≤ Ta ≤ +70°C)
Harmonized Standards Used:
EN IEC 60079-0: 2018, EN 60079-15: 2010

Baseefa12ATEX0191 - Dust Certificate

Equipment Group II Category 1 D

Ex ta IIIC T_{200}105°C Da (-20°C ≤ Ta ≤ +85°C)

Harmonized Standards Used:

EN IEC 60079-0: 2018, EN 60079-31: 2014

DEKRA12ATEX0212X - Flameproof Certificate

Equipment Group II Category 1/2 G

Ex db IIC T6 Ga/Gb (-50°C ≤ Ta ≤ +65°C)

T5 Ga/Gb (-50°C ≤ Ta ≤ +70°C)

Harmonized Standards Used:

EN IEC 60079-0: 2018, EN 60079-1:2014, EN 60079-26:2015

Model 3051G Pressure Transmitter

BAS00ATEX1166X - Intrinsic Safety Certificate

Equipment Group II Category 1 G

Ex ia IIC T4 Ga (-55 °C ≤ Ta ≤ +70 °C)

Harmonized Standards Used:

EN IEC 60079-0: 2018, EN 60079-11: 2012

BAS00ATEX3167X - Type n Certificate

Equipment Group II Category 3 G

Ex nA IIC T5 Gc (-55 °C ≤ Ta ≤ 70 °C)

Harmonized Standards Used:

EN IEC 60079-0: 2018, EN 60079-15: 2010

BAS01ATEX1427 - Dust Certificate

Equipment Group II Category 1 D

Ex t IIIC T50°C T_{500}60°C Da

Harmonized Standards Used:

EN 60079-0:2012+A11:2013 (A review against EN IEC 60079-0:2018 which is harmonized, shows no significant changes relevant to this equipment so EN60079-0:2012 + A11:2013 continues to represent "State of the Art".), EN 60079-31:2009

KEMA97ATEX2378X Flameproof Certificate

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

EMERSON

EU Declaration of Conformity

No: RMD 1089 Rev. M

CE

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 for EC Type Examination Certificate

DEKRA [Notified Body Number: 0344]
Meander 1051, 6825 MJ 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

8 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 3051
List of 3051 Parts with China RoHS Concentration above MCVs

产品中有害物质的名称及含有的信息表 Names and information table of hazardous substances in product						
部件名称 Part Name				电子组件 Electronics Assembly	壳体组件 Housing Assembly	传感器组件 Sensor Assembly
有害物质 Hazardous Substances	铅	Lead	(Pb)	X	O	X
	汞	Mercury	(Hg)	O	O	O
	镉	Cadmium	(Cd)	O	O	O
	六价铬	Hexavalent chromium	(Cr(VI))	O	O	O
	多溴联苯	Polybrominated biphenyls	(PBBs)	O	O	O
	多溴联苯醚	Polybrominated diphenyl ethers	(PBDEs)	O	O	O
	邻苯二甲酸二正丁酯	Dibutyl phthalate	(DBP)	O	O	O
	邻苯二甲酸二异丁酯	Diisobutyl phthalate	(DIBP)	O	O	O
	邻苯二甲酸丁苄酯	Butyl benzyl phthalate	(BBP)	O	O	O
	邻苯二甲酸二(2-乙基)己酯	Bis(2-ethylhexyl) phthalate	(DEHP)	O	O	O

注 1: O: 表示该有害物质在该部件所有均质材料中的含量均不超出电器电子产品有害物质限制使用国家标准要求。

X: 表示该有害物质至少在该部件的某一均质材料中的含量超出电器电子产品有害物质限制使用国家标准要求。

Note1: O: Indicate that said hazardous substance contained in all of the homogeneous materials for this part does not exceed the limit requirement of the national standard for the restriction of the use of hazardous substances in electrical and electronic products.

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 the national standard for the restriction of the use of hazardous substances in electrical and electronic products.

注 2：以上未列出的部件，表明其有害物质含量均不超过电器电子产品有害物质限制使用国家标准要求。

Note2: For components not listed above, indicates that their hazardous substance content does not exceed the limit requirements of the national standard for the restriction of the use of hazardous substances in electrical and electronic products.

注 3：组装备件说明

Note3: Spare Parts Descriptions for Assemblies

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
00825-0100-5007, Rev. DG
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For more information: Emerson.com

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