

# Rosemount™ 3051 Pressure Transmitter and 3051CF Series Flow Meter

with 4-20 mA HART®



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# 1 About this guide

This guide provides basic guidelines for Rosemount 3051 Transmitters. It does not provide instructions for configuration, diagnostics, maintenance, service, troubleshooting, Explosion-Proof, Flame-Proof, or intrinsically safe (I.S.) installations. Refer to the [Rosemount 3051 Manual](#) for more instructions. This guide is also available electronically on [Emerson.com/Rosemount](https://www.emerson.com/Rosemount).

## 1.1 Safety messages

### **⚠ DANGER**

#### **Explosions**

Explosions could result in death or serious injury.

Before connecting a handheld communicator in an explosive atmosphere, ensure that the instruments are installed in accordance with intrinsically safe or non-incendive field wiring practices.

In an explosion-proof/flameproof installation, do not remove the transmitter covers when power is applied to the unit.

### **⚠ DANGER**

#### **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.

### **⚠ DANGER**

#### **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.

**⚠ WARNING****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.

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**⚠ CAUTION****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 × 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.

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## 2 Mounting the transmitter

### NOTICE

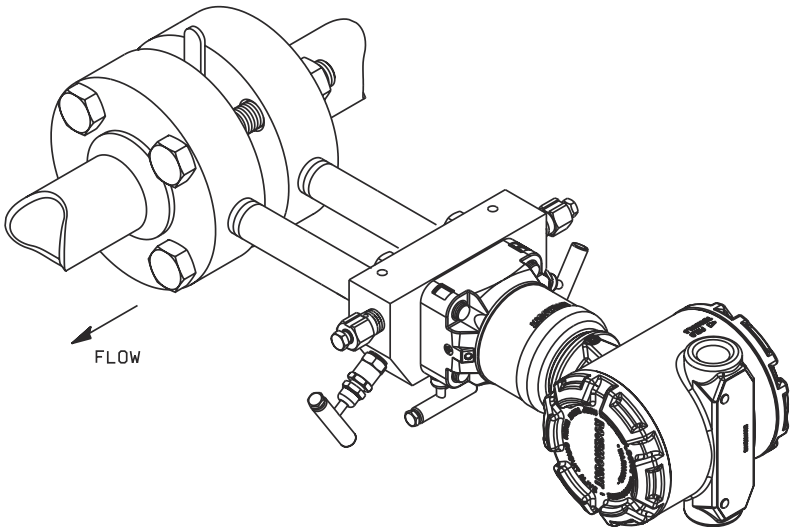
Consider process connection and ambient temperatures when installing the 3051 with hazardous location certifications. Process connection temperatures above +85 °C require a limited ambient temperature, reduced by a 1:1.5 ratio. See [Table 2-1](#).

**Table 2-1: Intrinsically safe/increased safety**

Process connection temperature	Maximum ambient temperature
-60 °C to +85 °C	+70 °C
+85 °C to +121 °C	+70 °C to +16 °C <sup>(1)</sup>

(1) Maximum ambient temperature is reduced by a ratio of 1:1.5 as process connection temperature increased beyond +85 °C.

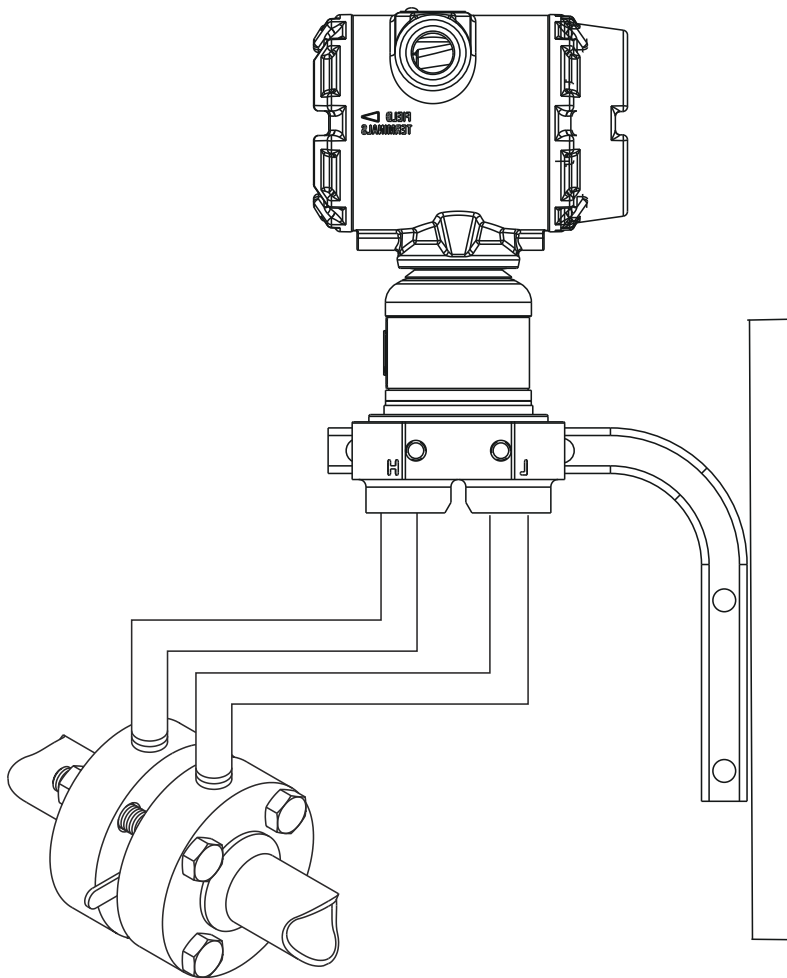
### 2.1 Mount the transmitter in a liquid flow application



#### Procedure

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

## 2.2 Mount the transmitter in a gas flow application



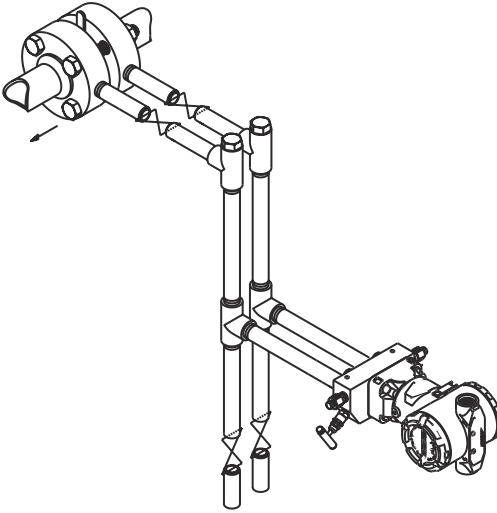
### NOTICE

A bracket required to support the transmitter and the ¼-in. tubing going into the transmitter.

### Procedure

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

## 2.3 Steam flow applications

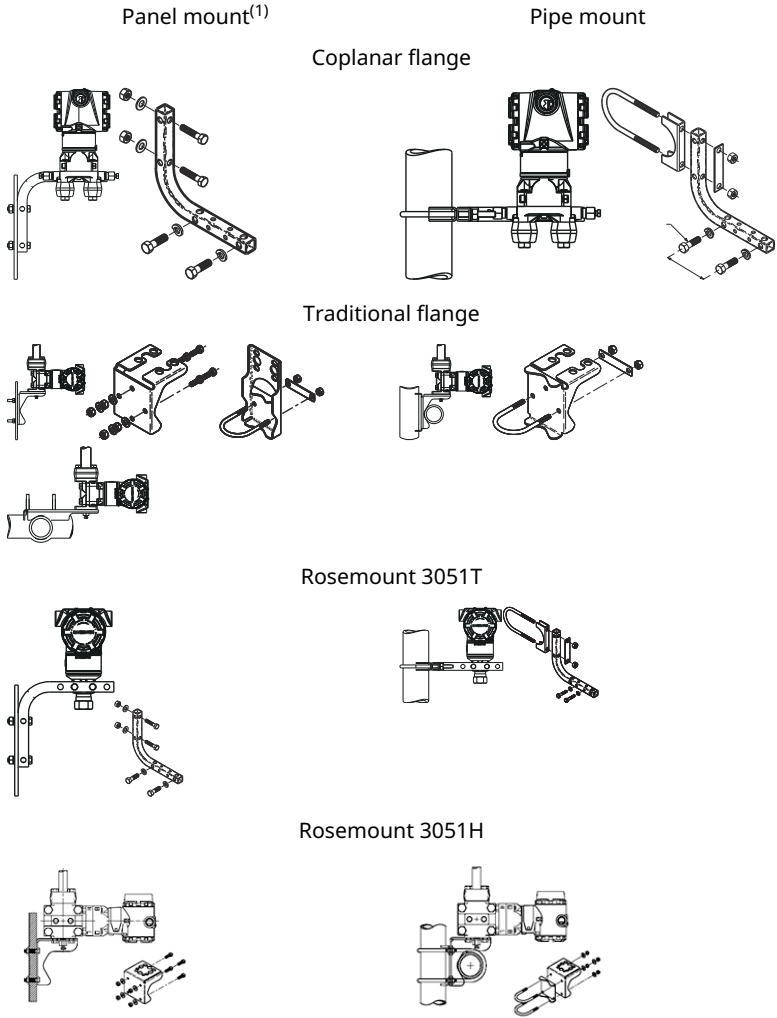


### Procedure

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

## 2.4 Panel and pipe mount

**Figure 2-1: Panel and Pipe Mounting**



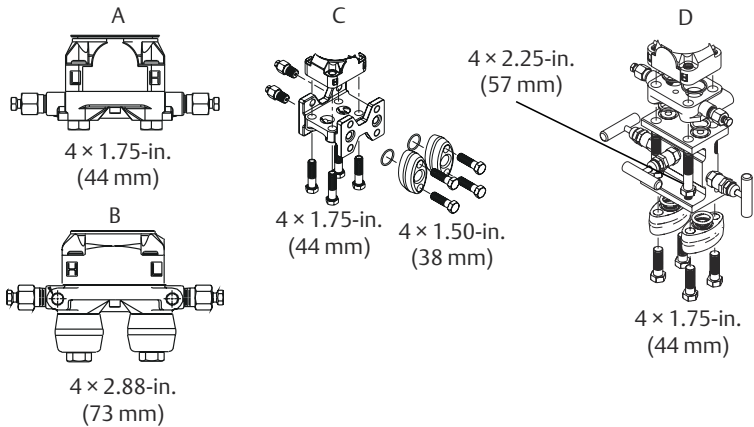
**(1)** 5/16 x 1½ panel bolts are customer supplied.



## 2.5 Bolting considerations

If the transmitter installation requires assembly of the process flanges, manifolds, or flange adapters, follow these 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
- D. Transmitter with coplanar flange and optional manifold and flange adapters

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

### 2.5.1 Bolt installation


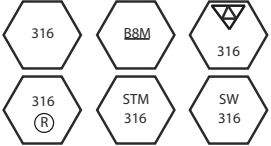
**Note**

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.

**Procedure**

1. Finger-tighten the bolts.
2. Torque the bolts to the initial torque value using a crossing pattern (see [Table 2-2](#) for torque values).
3. Torque the bolts to the final torque value using the same crossing pattern (see [Table 2-2](#) for torque values).
4. Verify that 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

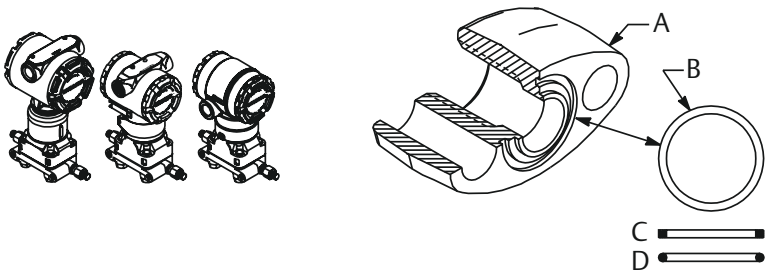
## 2.6 O-rings with flange adapters

### ▲ 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 below.

**Figure 2-3: O-ring Location**

Rosemount 3051S/3051/2051



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

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.

## 2.7 Environmental seal for housing

For NEMA<sup>®</sup> 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.

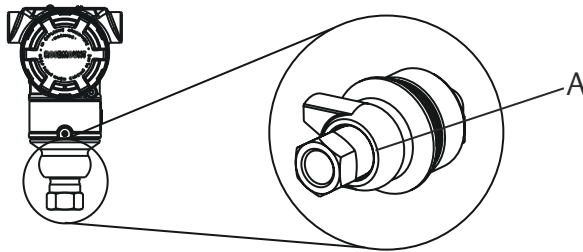
For M20 threads, install conduit plugs to full thread engagement or until mechanical resistance is met.

## 2.8 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 that 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 display:

#### Procedure

1. Loosen the housing rotation set screw using a 5/64-in. hex wrench.
2. Turn the housing left or right up to a maximum of 180 ° from its original position.<sup>(1)</sup>
3. Re-tighten the housing rotation set screw to a maximum of 7 in-lb when desired location is reached.

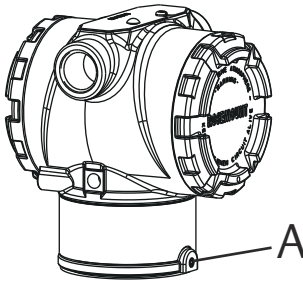
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#### Note

Over-rotating will damage the transmitter.

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**Figure 3-1: Housing Rotation**



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

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*(1) Rosemount 3051C original position aligns with "H" side; Rosemount 3051T original position is the opposite side of the bracket holes.*

## 4 Set the switches

Set alarm and security switch configuration before installation as shown in [Figure 4-1](#).

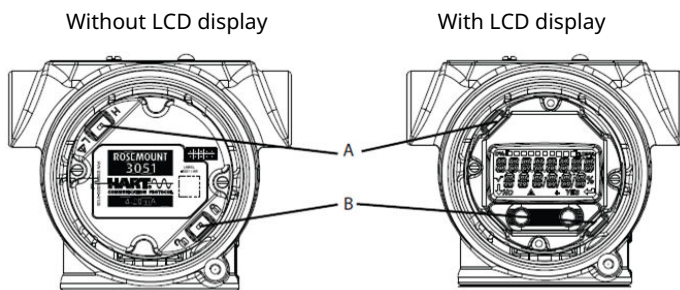
- The alarm switch sets the analog output alarm to high or low.
- Default alarm is high.
- The security switch allows (🔓) or prevents (🔒) any configuration of the transmitter.
- Default security is off (🔓).

Use the following procedure to change the switch configuration:

### Procedure

1. If the transmitter is installed, secure the loop, and remove power.
2. Remove the housing cover opposite the field terminal side. Do not remove the instrument cover in explosive atmospheres when the circuit is alive.
3. Slide the security and alarm switches into the preferred position using a small screwdriver.
4. Reattach the transmitter cover. The cover must be fully engaged to comply with explosion-proof requirements.

**Figure 4-1: Electronics Board**



- A. Alarm
- B. Security

## 5 Connect the wiring and power up

Figure 5-1 shows wiring connections necessary to power a Rosemount 3051 transmitter and enable communications with a handheld communicator. Resistance and power requirements vary based on the interface type used to communicate with the device. See Table 5-1 for specific loop power and resistance needs.

Use the following steps 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. Ensure full contact with terminal block screw and washer. When using a direct wiring method, wrap wire clockwise to ensure it is in place when tightening the terminal block screw.

The use of a pin or a ferrule wire terminal is not recommended as the connection may be more susceptible to loosening over time or under vibration.

4. Ensure proper grounding.

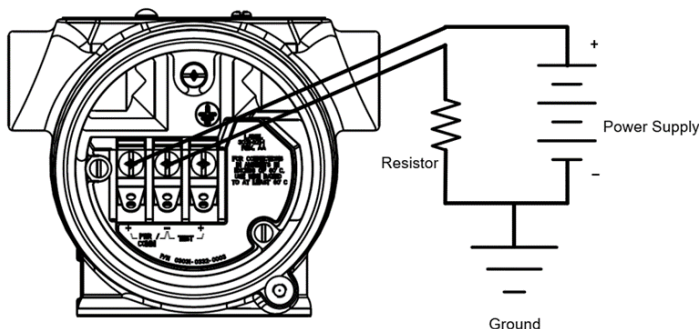
It is important that the instrument cable shield:

- Be trimmed close and insulated from touching the transmitter housing
- Be connected to the next shield if cable is routed through a junction box
- Be connected to a good earth ground at the power supply end

Do not connect the powered signal wiring to the test terminals. Power could damage the test diode in the test connection. Shielded twisted pair cable should be used for best results. Use 24 AWG or larger wire and do not exceed 5,000 ft (1500 m).

5. Plug and seal unused conduit connections.
6. 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.
7. Replace the housing cover.

**Figure 5-1: Transmitter Wiring Diagrams**



**Note**

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

**Table 5-1: Power supply and resistance needs by communicator type**

Communicator	Power Supply	Resistor
AMS Device Manager	≥ 16.6 Vdc	≥ 250 Ω
AMS Trex (HART)	≥ 16.6 Vdc	≥ 250 Ω
AMS Trex (HART + pwr)	none	none
AMS Device Configurator Bluetooth App	≥ 10.5 Vdc	none
Quick Service Buttons	≥ 10.5 Vdc	none
Local Operator Interface	≥ 10.5 Vdc	none

## 5.1 Signal wiring grounding

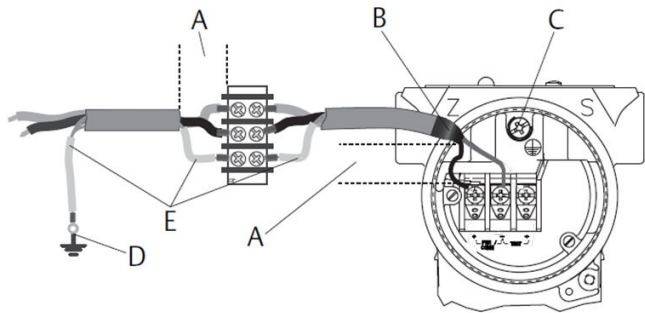
Do not run signal wiring in conduit or open trays with power wiring, or near heavy electrical equipment. Grounding terminations are provided on the outside of the electronics housing and inside the terminal compartment. These grounds are used when transient protect terminal blocks are installed or to fulfill local regulations. See [Step 2](#) for more information on how the cable shield should be grounded.



## Procedure

1. Remove the field terminals housing cover.
2. Connect the wiring pair and ground as indicated in [Figure 5-2](#).
  - Be trimmed close and insulated from touching the transmitter housing
  - Continuously connect to the termination point
  - Be connected to a good earth ground at the power supply end

**Figure 5-2: Wiring**



- A. Minimize distance
- B. Trim shield and insulate
- C. Ground for transient protection
- D. Shield connected to power supply ground
- E. Insulate shield

3. Replace the housing cover.  
It is recommended the cover be tightened until there is no gap between the cover and the housing.
4. Plug and seal unused conduit connections.

## 5.2 Power supply for a 4-20 mA HART®

The transmitter operates on 10.5–42.4 Vdc at the terminal of the transmitter. The DC power supply should provide power with less than two percent ripple. Loops with a 250  $\Omega$  resistance require a minimum of 16.6 V.

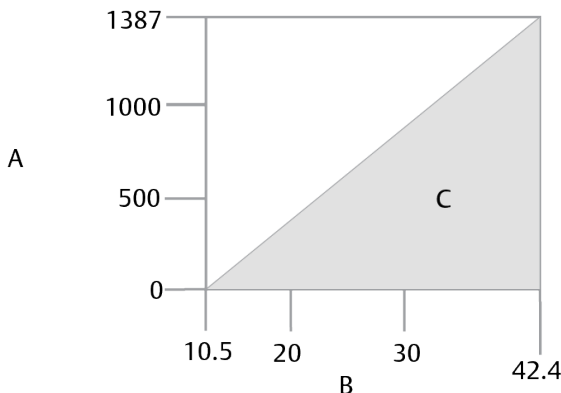
### Note

The transmitter must have a minimum of 250  $\Omega$  to communicate with a Field Communicator. If you are using a single power supply to

power more than one Rosemount 3051 Transmitter, make sure the power supply used and the circuitry common to the transmitters do not have more than 20 Ω of impedance at 1200 Hz.

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**Figure 5-3: Load limitation**



Maximum loop resistance =  $43.5 \times (\text{power supply voltage} - 10.5)$

- A. Load (Ω)
  - B. Voltage (VDC)
  - C. Operating region
- 

The total resistance load is the sum of the resistance of the signal leads and the load resistance of the controller, indicator, I.S. barriers, and related pieces. If you use intrinsic safety barriers, include the resistance and voltage drop.

## 6 Configuration parameters

Emerson recommends that you verify various configuration parameters prior to installation into the process.

- Alarm and saturation levels
- Damping
- Process variables
- Range values
- Tag
- Transfer function
- Units

Complete the following steps to verify these parameters. See [Figure 6-1](#) for a full menu tree.

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### Note

Emerson recommends installing the latest DD to ensure full functionality. Download the latest DD at [Software Downloads & Drivers | Emerson US](#).

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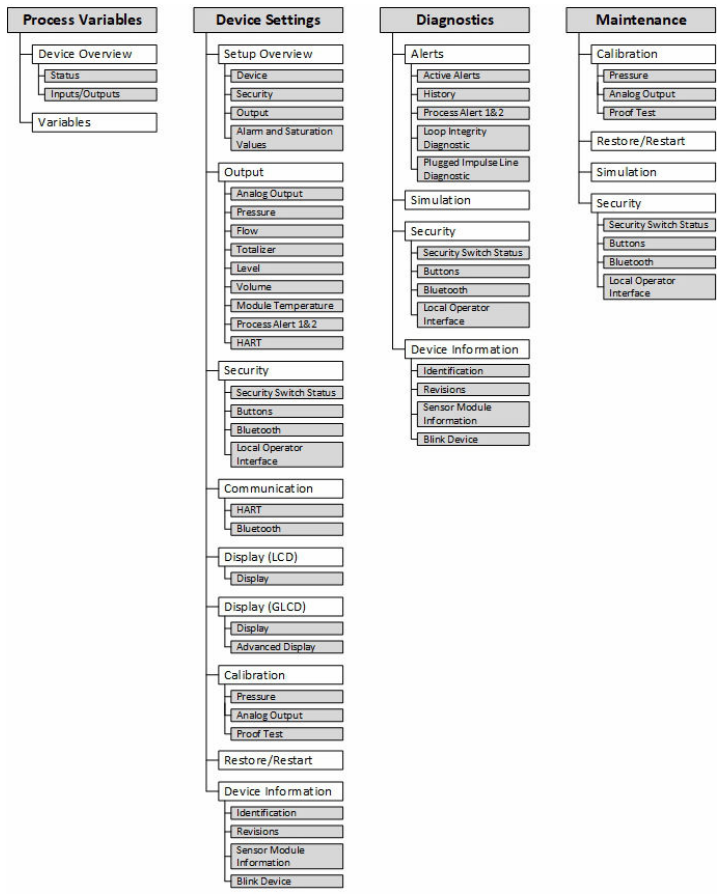
### Communication Device

#### Procedure

1. Alarm and saturation values
  - **Device Settings** → **Setup Overview** → **Alarm and Saturation Values**
2. Damping
  - **Device Settings** → **Setup Overview** → **Output**
3. Process variables
  - Primary variable: **Device Settings** → **Setup Overview** → **Output**
  - Secondary/Tertiary/Quaternary variables: **Device Settings** → **Communication** → **HART** → **Variable Mapping**
4. Range values
  - **Device Settings** → **Setup Overview** → **Output**
5. Tag

- **Device Settings** → **Setup Overview** → **Device**
6. Transfer function
- **Device Settings** → **Setup Overview** → **Output**
7. Units
- Pressure units: **Device Settings** → **Setup Overview** → **Output**
  - Other units: **Device Settings** → **Output** → **Pressure/Flow/Totalizer/Level/Volume/Module Temperature** → **Setup**

Figure 6-1: DD Menu Tree



## 6.1 Wireless configuration via Bluetooth® technology

### 6.1.1 Download AMS Device Configurator

#### Procedure

Download and install the app from your app store. The first time opening AMS Device Configurator, you may be asked to allow the application to access media on your device and to access your device's location. If prompted, select **Allow**.



#### Related information

[Emerson.com/Automation-Solutions-Bluetooth](https://www.emerson.com/Automation-Solutions-Bluetooth)

### 6.1.2 Configure via Bluetooth® wireless technology

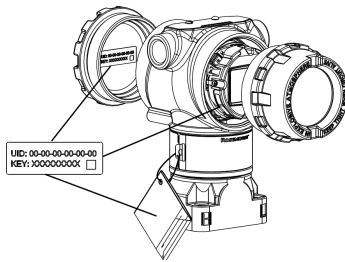
#### Procedure

1. Launch AMS Device Configurator.  
See [AMS Device Configurator for Emerson Field Devices](#).
2. Click on the device you want to connect to.
3. On first connection, enter the key for this device.
4. At the top left, click the menu icon to navigate the desired device menu.

#### Bluetooth® UID and key

You can find the UID and key on the disposable paper tag attached to the device, the terminal block cover, and on the display unit.

**Figure 6-2: Bluetooth security information**



## 7 Trim the transmitter

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### Note

Transmitters are shipped fully calibrated per request or by the factory default of full scale (span = upper range limit).

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### 7.1 Zero trim

A zero trim is a single-point adjustment used for compensating mounting position effects. When performing a zero trim, ensure the equalizing valve is open and all wet legs are filled to the correct level.

There are two methods to compensate for mounting effects:

- Zero Trim
- Using the transmitter zero adjustment buttons

The zero trim will affect the 4–20 mA value, the HART PV, and the display value.

#### 7.1.1 For HART communicator

##### Procedure

1. Equalize or vent the transmitter and connect Field Communicator.
2. **Navigate to Maintenance → Calibration → Pressure → Calibration → Zero Sensor Trim**
3. Follow the commands to perform a zero trim.

#### 7.1.2 For Quick Service buttons

##### Procedure

1. Locate the external buttons under the top nameplate as shown in [Figure 7-1](#).
2. Press either button to wake the menu.
3. Follow the on screen prompt by pressing the other button.
4. Once on the **Quick Service Button** main menu, use the scroll and enter buttons to navigate to the **Zero** menu.

#### 7.1.3 Using the transmitter zero adjustment buttons

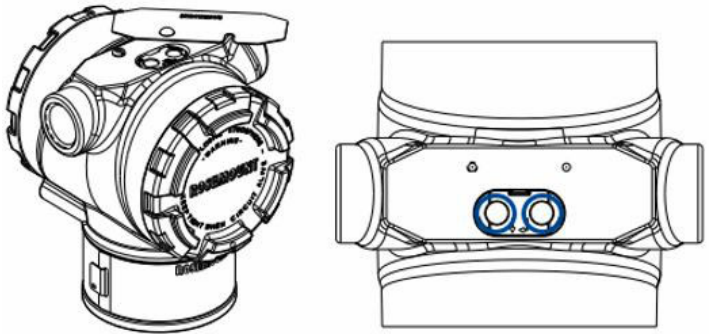
Using the transmitter zero adjustment buttons, the lower range value (LRV) will be set to the pressure applied to the transmitter. This adjustment will affect the 4–20 mA value only. Perform the following steps to perform a rerange using the zero adjustment buttons.

## Procedure

1. Loosen the certifications label screw and slide the label to expose the zero adjustment buttons.
2. Set the 4 mA point by pressing the zero button for two seconds. Verify the output is 4 mA.  
The optional LCD display will show ZERO PASS.

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**Figure 7-1: Zero Adjustment or Quick Service Buttons**



## 8 Safety Instrumented Systems (SIS)

For safety certified installations, refer to the [Rosemount 3051 Reference Manual](#) for installation procedure and system requirements.



## 9 Product certifications

Rev 2.13

### 9.1 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](https://www.emerson.com/Rosemount).

### 9.2 FCC notice

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.

Changes or modification to the equipment not expressly approved by Rosemount, Inc. could void the user's authority to operate the equipment.

### 9.3 ISED notice

This device contains license-exempt transmitter(s)/receiver(s) that comply with Innovation, Science, and Economic Development Canada's license-exempt RSS(s). Operation is subject to the following two conditions: This device may not cause interference. This device must accept any interference, including interference that may cause undesired operation of the device.

Cet appareil est conforme à la norme RSS-247 Industrie Canada exempt de licence. Son fonctionnement est soumis aux deux conditions suivantes : (1) cet appareil ne doit pas provoquer d'interférences et (2) cet appareil doit accepter toute interférence, y compris les interférences pouvant causer un mauvais fonctionnement du dispositif.

### 9.4 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).

## 9.5 North America

### 9.5.1 E5 USA Explosionproof (XP) and Dust-Ignitionproof (DIP)

#### Range 1-5 (HART®)

**Certificate** FM16US0121

**Standards** FM Class 3600 – 2018, FM Class 3615 – 2018, FM Class 3616 - 2011, FM Class 3810 – 2005, ANSI/NEMA 250 – 2008

**Markings** XP CL I, DIV 1, GP B, C, D; DIP CL II, DIV 1, GP E, F, G; CL III; T5(-50 °C ≤ T<sub>a</sub> ≤ +85 °C); Factory Sealed; Type 4X

#### Range 1-6 (HART/Fieldbus/)

**Certificate** 1053834

**Standards** ANSI/ISA 12.27.01-2003, CSA Std. C22.2 No. 30 -M1986, CSA Std. C22.2 No.142-M1987, CSA Std. C22.2 No. 213 - M1987

**Markings** XP Class I, Division 1, Groups B, C and D, T5, (-50 °C ≤ T<sub>a</sub> ≤ 85 °C) Suitable for Class I, Zone 1, Group IIB+H2, T5; DIP Class II and Class III, Division 1, Groups E, F and G, T5, (-50 °C ≤ T<sub>a</sub> ≤ 85 °C) ; Type 4X; Factory Sealed; Single Seal (See drawing 03031-1053)

### 9.5.2 I5 USA Intrinsic Safety (IS) and Nonincendive (NI)

#### Range 1-5 (HART®)

**Certificate** FM16US0120X

**Standards** FM Class 3600 - 2011, FM Class 3610 - 2010, FM Class 3611 - 2004, FM Class 3810 - 2005, ANSI/NEMA 250 - 2008

**Markings** IS CL I, DIV 1, GP A, B, C, D; CL II, DIV 1, GP E, F, G; Class III; DIV 1 when connected per Rosemount drawing 03031-1019; NI CL 1, DIV 2, GP A, B, C, D; T4 (-50 °C ≤ T<sub>a</sub> ≤ +70 °C) [HART], T4 (-50 °C ≤ T<sub>a</sub> ≤ +60 °C) [Fieldbus/ PROFIBUS]; Type 4X

#### Special Conditions for Safe Use (X):

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.

- 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.

### Range 1-6 (HART/Fieldbus/PROFIBUS)

**Certificate** 1053834

**Standards** ANSI/ISA 12.27.01-2003, CSA Std. C22.2 No.142-M1987, CSA Std. C22.2. No.157-92

**Markings** IS Class I, II, III, Division 1 Groups A, B, C, D, E, F, and G when connected in accordance with Rosemount drawing 03031-1024, Suitable for Class I, Zone 0 Group IIC; Class I, Division 2, Groups A, B, C, and D; NIFW; Suitable for Class I, Zone 2, Group IIC; HART: T4 ( $-60\text{ }^{\circ}\text{C} \leq T_a \leq +70\text{ }^{\circ}\text{C}$ ), T5 ( $-60\text{ }^{\circ}\text{C} \leq T_a \leq +40\text{ }^{\circ}\text{C}$ ) Fieldbus/PROFIBUS: T4 ( $-60\text{ }^{\circ}\text{C} \leq T_a \leq +60\text{ }^{\circ}\text{C}$ ) Type 4X

## 9.5.3 IE USA FISCO

### Range 1-5 (HART®)

**Certificate** FM16US0120X

**Standards** FM Class 3600 - 2011, FM Class 3610 - 2010, FM Class 3611 - 2004, FM Class 3810 - 2005

**Markings** IS CL I, DIV 1, GP A, B, C, D when connected per Rosemount drawing 03031-1019 ( $-50\text{ }^{\circ}\text{C} \leq T_a \leq +60\text{ }^{\circ}\text{C}$ ); Type 4X

### Special Conditions for Safe Use (X):

- 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.
- 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.

### Range 1-6 (HART/Fieldbus/PROFIBUS)

**Certificate** 1053834

**Standards** ANSI/ISA 12.27.01-2003, CSA Std. C22.2 No.142-M1987, CSA Std. C22.2. No.157-92

**Markings** IS Class I, Division 1 Groups A, B, C, D, T4 ( $-60\text{ °C} \leq T_a \leq +60\text{ °C}$ ) when connected in accordance with Rosemount drawing 03031-1024, Suitable for Class I, Zone 0 Group IIC; Type 4X; Factory Sealed; Single Seal (See drawing 03031-1053)

#### 9.5.4 C6 Canada Explosionproof, Dust-Ignitionproof, Intrinsic Safety and Nonincendive

**Certificate** 1053834

**Standards** ANSI/ISA 12.27.01-2003, CSA Std. C22.2 No. 30 -M1986, CSA Std. C22.2 No.142-M1987, CSA Std. C22.2. No.157-92, CSA Std. C22.2 No. 213 - M1987

**Markings** Explosionproof for Class I, Division 1, Groups B, C and D; Suitable for Class I, Zone 1, Group IIB+H2, T5 ( $-50\text{ °C} \leq T_a \leq +85\text{ °C}$ );  
Dust-Ignitionproof Class II, III Division 1, Groups E, F, G; T5 ( $-50\text{ °C} \leq T_a \leq +85\text{ °C}$ );  
Intrinsically Safe Class I, Division 1, Groups A, B, C, D when connected in accordance with Rosemount drawing 03031-1024, Temperature Code T4; Suitable for Class I, Zone 0;  
Class I Division 2 Groups A, B, C, and D, T5; Suitable for Class I Zone 2, Group IIC; Type 4X; Factory Sealed; Single Seal (See drawing 03031-1053)

#### 9.5.5 E6 Canada Explosionproof, Dust-Ignitionproof and Division 2

**Certificate** 1053834

**Standards** ANSI/ISA 12.27.01-2003, CSA Std. C22.2 No. 30 -M1986, CSA Std. C22.2 No.142-M1987, CSA Std. C22.2 No. 213 - M1987

**Markings** Explosionproof Class I, Division 1, Groups B, C, and D; Suitable for Class I, Zone 1, Group IIB+H2, T5;  
Dust-Ignitionproof for Class II and Class III, Division 1, Groups E, F, and G; T5 ( $-50\text{ °C} \leq T_a \leq +85\text{ °C}$ );  
Class I, Division 2, Groups A, B, C, and D; T5; Suitable for Class I Zone 2, Group IIC; Type 4X; Factory Sealed; Single Seal (See drawing 03031-1053)

## 9.6 Europe

### 9.6.1 E8 ATEX Flameproof and Dust

<b>ATEX Certificate</b>	KEMA00ATEX2013X; Baseefa11ATEX0275X
<b>Standards Used</b>	EN IEC 60079-0:2018, EN 60079-1:2014, EN 60079-26:2015, EN 60079-31:2009
<b>Markings</b>	<p>⊕ II ½ G Ex db IIC T6...T4 Ga/Gb T6 (-60 °C ≤ T<sub>a</sub> ≤ +70 °C), T4/T5 (-60 °C ≤ T<sub>a</sub> ≤ +80 °C);</p> <p>⊕ II 1 D Ex ta IIIC T95 °C T<sub>500</sub>105 °C Da (-20 °C ≤ T<sub>a</sub> ≤ +85 °C)</p>

**Table 9-1: Process Temperature**

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

#### Special Conditions for Safe Use (X):

1. This device contains a thin wall diaphragm less than 1 mm thick 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. During installation, maintenance, and use, the environmental conditions to which the diaphragm will be subjected shall be taken into account. 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 for repair.
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.

### 9.6.2 I1 ATEX Intrinsic Safety and Dust

**Certificate** BAS97ATEX1089X; Baseefa11ATEX0275X

**Standards** EN60079-0:2012 + A11:2013, EN60079-11:2012, EN60079-31:2014

**Markings** HART®: Ⓢ II 1 G Ex ia IIC T5/T4 Ga, T5 (-60 °C ≤ T<sub>a</sub> ≤ +40 °C), T4 (-60 °C ≤ T<sub>a</sub> ≤ +70 °C)

Fieldbus/PROFIBUS: Ⓢ II 1 G Ex ia IIC Ga T4 (-60 °C ≤ T<sub>a</sub> ≤ +60 °C)

DUST: Ⓢ II 1 D Ex ta IIIC T95 °C T<sub>500</sub> 105 °C Da (-20 °C ≤ T<sub>a</sub> ≤ +85 °C)

**Table 9-2: Input Parameters**

	HART®	Fieldbus/PROFIBUS
Voltage U <sub>i</sub>	30 V	30 V
Current I <sub>i</sub>	200 mA	300 mA
Power P <sub>i</sub>	0.9 W	1.3 W
Capacitance C <sub>i</sub>	0.012 μF	0 μF
Inductance L <sub>i</sub>	0 mH	0 mH

#### Special Conditions for Safe Use (X):

1. The apparatus is not capable of withstanding the 500 V insulation test required by clause 6.3.12 of EN60079-11: 2012. 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 should 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.

### 9.6.3 IA ATEX FISCO

**Certificate** BAS97ATEX1089X

**Standards** EN60079-0:2012 + A11:2013, EN60079-11:2012

**Markings** Ⓢ II 1 G Ex ia IIC T4 Ga (-60 °C ≤ T<sub>a</sub> ≤ +60 °C)

**Table 9-3: Input Parameters**

	Fieldbus/PROFIBUS
Voltage $U_i$	17.5 V
Current $I_i$	380 mA
Power $P_i$	5.32 W
Capacitance $C_i$	$\leq 5$ nF
Inductance $L_i$	$\leq 10$ $\mu$ H



**Special Conditions for Safe Use (X):**

1. The apparatus is not capable of withstanding the 500 V insulation test required by clause 6.3.12 of EN60079-11: 2012. 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 should be taken to protect it from impact or abrasion if located in Zone 0.

**9.6.4 N1 ATEX Type n and Dust**

**Certificate** BAS00ATEX3105X; Baseefa11ATEX0275X

**Standards** EN60079-0:2012 + A11:2013, EN60079-15:2010, EN60079-31:2014

**Markings**  II 3 G Ex nA IIC T5 Gc (-40 °C  $\leq$  T<sub>a</sub>  $\leq$  +70 °C);  
 II 1 D Ex ta IIIC T95 °C T<sub>500</sub> 105 °C Da (-20 °C  $\leq$  T<sub>a</sub>  $\leq$  +85 °C)

**Special Conditions for Safe Use (X):**

1. This apparatus is not capable of withstanding the 500 V insulation test that is required by clause 6.8.1 of 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.

**9.7 International**

**9.7.1 E7 IECEx Flameproof and Dust**

**Certificate** IECEx KEM 09.0034X; IECEx BAS 10.0034X

**Standards** IEC 60079-0:2017, IEC 60079-1:2014-06, IEC 60079-26:2014-10, IEC 60079-31:2013

**Markings** Ex db IIC T6...T4 Ga/Gb T6(-60 °C ≤ T<sub>a</sub> ≤ +70 °C), T4/T5(-60 °C ≤ T<sub>a</sub> ≤ +80 °C); Ex ta IIIC T95 °C T<sub>500</sub>105 °C Da (-20 °C ≤ T<sub>a</sub> ≤ +85 °C)

**Table 9-4: Process Temperature**

Temperature class	Process connection temperature
T6	-60 °C to +70 °C
T5	-60 °C to +80 °C
T4	-60 °C to +80 °C

### Special Conditions for Safe Use (X):

1. This device contains a thin wall diaphragm less than 1 mm thick that forms a boundary between EPL Ga (process connection) and EPL Gb (all other parts of the equipment). The model code and datasheet are to be consulted for details of the diaphragm material. During installation, maintenance, and use, the environmental conditions to which the diaphragm will be subjected shall be taken into account. 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 for repair.
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.

## 9.7.2 I7 IECEx Intrinsic Safety

**Certificate** IECEx BAS 09.0076X

**Standards** IEC60079-0:2011, IEC60079-11:2011

**Markings** HART®: Ex ia IIC T5/T4 Ga, T5(-60 °C ≤ T<sub>a</sub> ≤ +40 °C), T4 (-60 °C ≤ T<sub>a</sub> ≤ +70 °C)  
 Fieldbus/PROFIBUS: Ex ia IIC T4(-60 °C ≤ T<sub>a</sub> ≤ +60 °C)



**Table 9-5: Input Parameters**

	HART®	Fieldbus/PROFIBUS
Voltage $U_i$	30 V	30 V
Current $I_i$	200 mA	300 mA
Power $P_i$	0.9 W	1.3 W
Capacitance $C_i$	0.012 $\mu$ F	0 $\mu$ F
Inductance $L_i$	0 mH	0 mH

**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 clause 6.3.12 of IEC 60079-11. 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 should be taken to protect it from impact or abrasion if located in Zone 0.

**IECEx Mining (Special A0259)**

**Certificate** IECEx TSA 14.0001X  
**Standards** IEC60079-0:2011, IEC60079-11:2011  
**Markings** Ex ia I Ma (-60 °C ≤  $T_a$  ≤ +70 °C)

**Table 9-6: Input Parameters**

	HART®	Fieldbus/ PROFIBUS	FISCO
Voltage $U_i$	30 V	30 V	17.5 V
Current $I_i$	200 mA	300 mA	380 mA
Power $P_i$	0.9 W	1.3 W	5.32 W
Capacitance $C_i$	0.012 $\mu$ F	0 $\mu$ F	<5 nF
Inductance $L_i$	0 mH	0 mH	<10 $\mu$ H

**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. It is a condition of safe use that the above input parameters shall be taken into account during installation.
3. It is a condition of manufacture that only the apparatus fitted with housing, covers, and sensor module housing made out of stainless steel are used in Group 1 applications.

### 9.7.3 IG IECEx FISCO

<b>Certificate</b>	IECEX BAS 09.0076X
<b>Standards</b>	IEC60079-0:2011, IEC60079-11:2011
<b>Markings</b>	Ex ia IIC T4 Ga (-60 °C ≤ T <sub>a</sub> ≤ +60 °C)

**Table 9-7: Input Parameters**

	<b>Fieldbus/PROFIBUS</b>
Voltage U <sub>i</sub>	17.5 V
Current I <sub>i</sub>	380 mA
Power P <sub>i</sub>	5.32 W
Capacitance C <sub>i</sub>	≤ 5 nF
Inductance L <sub>i</sub>	≤ 10 μH

#### **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 clause 6.3.12 of IEC 60079-11. 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 should be taken to protect it from impact or abrasion if located in Zone 0.

### 9.7.4 N7 IECEx Type n

<b>Certificate</b>	IECEX BAS 09.0077X
<b>Standards</b>	IEC60079-0:2011, IEC60079-15:2010
<b>Markings</b>	Ex nA IIC T5 Gc (-40 °C ≤ T <sub>a</sub> ≤ +70 °C)

#### **Special Condition for Safe Use (X):**

This apparatus is not capable of withstanding the 500 V insulation test required by clause 6.5.1 of IEC 60079-15. This must be taken into account when installing the apparatus.

## 9.8 Brazil

### 9.8.1 E2 INMETRO Flameproof

**Certificate** UL-BR 13.0643X

**Standards** ABNT NBR IEC 60079-0:2013; ABNT NBR IEC 60079-1:2016; ABNT NBR IEC 60079-26:2016

**Markings** Ex db IIC T6...T4 Ga/Gb, T6(-60 °C ≤ T<sub>a</sub> ≤ +70 °C), T4/T5 (-60 °C ≤ T<sub>a</sub> ≤ +80 °C)

#### 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 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 for repair.
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.

### 9.8.2 I2 INMETRO Intrinsic Safety

**Certificate** UL-BR 13.0584X

**Standards** ABNT NBR IEC60079-0:2013, ABNT NBR IEC60079-11:2013

**Markings** HART<sup>®</sup>: Ex ia IIC T5/T4 Ga, T5(-60 °C ≤ T<sub>a</sub> ≤ +40 °C), T4 (-60 °C ≤ T<sub>a</sub> ≤ +70 °C)  
 Fieldbus/PROFIBUS: Ex ia IIC T4 Ga (-60 °C ≤ T<sub>a</sub> ≤ +60 °C)

**Table 9-8: Input Parameters**

	HART <sup>®</sup>	Fieldbus/PROFIBUS
Voltage U <sub>i</sub>	30 V	30 V
Current I <sub>i</sub>	200 mA	300 mA
Power P <sub>i</sub>	0.9 W	1.3 W

**Table 9-8: Input Parameters** *(continued)*

	HART®	Fieldbus/PROFIBUS
Capacitance $C_i$	0.012 $\mu\text{F}$	0 $\mu\text{F}$
Inductance $L_i$	0 mH	0 mH

**Special Conditions for Safe Use (X):**

1. If the equipment is fitted with an optional 90 V transient suppressor, it is not capable of withstanding the 500 V insulation test required by ABNT NBR IRC 60079-11. This must be taken into account when installing the equipment.
2. The enclosure may be made of aluminum alloy and given protective polyurethane paint finish; however, care should be taken to protect it from impact or abrasion if equipment requires EPL Ga.

## 9.8.3 IB INMETRO FISCO

**Certificate** UL-BR 13.0584X

**Standards** ABNT NBR IEC60079-0:2013, ABNT NBR IEC60079-11:2013

**Markings** Ex ia IIC T4 Ga (-60 °C  $\leq$  T<sub>a</sub>  $\leq$  +60 °C)

**Table 9-9: Input Parameters**

	FISCO
Voltage $U_i$	17.5 V
Current $I_i$	380 mA
Power $P_i$	5.32 W
Capacitance $C_i$	$\leq$ 5 nF
Inductance $L_i$	$\leq$ 10 $\mu\text{H}$

**Special Conditions for Safe Use (X):**

1. If the equipment is fitted with an optional 90 V transient suppressor, it is not capable of withstanding the 500 V insulation test required by ABNT NBR IEC 60079-11. This must be taken into account when installing the equipment.
2. The enclosure may be made of aluminum alloy and given protective polyurethane paint finish; however, care should be taken to protect it from impact or abrasion if equipment requires EPL Ga.

## 9.9 China

### 9.9.1 E3 China Flameproof

**Certificate** GYJ19.1056X [Transmitters]; GYJ20.1486X [Flow meters]

**Standards** GB3836.1-2010, GB3836.2-2010, GB3836.20-2010, GB12476.1-2013, GB12476.5-2013

**Markings** 3051 Series: Ex d IIC T6 ~ T4 Ga/Gb, Ex tD A20 IP66 T95 °C T<sub>500</sub> 105 °C (-20 °C ≤ T<sub>a</sub> ≤ +85 °C)  
3051CF Series: Ex d IIC T5/T6 Ga/Gb

### 9.9.2 I3 China Intrinsic Safety

**Certificate** GYJ18.1419X; GYJ20.1488X [Flow meters]

**Standards** GB3836.1-2010, GB3836.4-2010, GB3836.20-2010, GB12476.1-2000

**Markings** 3051 Series: Ex ia IIC T4/T5 Ga, DIP A20 T<sub>A</sub> 80 °C IP66  
3051 CF Series: Ex ia IIC T4/T5 Ga

### 9.9.3 N3 China Type n

**Certificate** GYJ20.1110X

**Standards** GB3836.1-2010, GB3836.8-2014

**Markings** Ex nA IIC T5 Gc (-40 °C ≤ T<sub>a</sub> ≤ +70 °C)

## 9.10 Japan

### 9.10.1 E4 Japan Flameproof

**Certificate** TC20577, TC20578, TC20583, TC20584 [HART]; TC20579, TC20580, TC20581, TC20582 [Fieldbus]

**Markings** Ex d IIC T5

## 9.11 Republic of Korea

### 9.11.1 EP Republic of Korea Flameproof

**Certificate** 11-KB4BO-0188X [Mfg Singapore], 19-KA4BO-079X [Mfg USA]

**Markings** Ex d IIC T6...T4 Ga/Gb

### 9.11.2 IP Republic of Korea Intrinsic Safety

**Certificate** 13-KB4BO-0203X [HART® – Mfg USA], 13-KB4BO-0204X [Fieldbus – Mfg USA], 10-KB4BO-0138X [HART® – Mfg Singapore], 13-KB4BO-0206X [Fieldbus – Mfg Singapore] 18-KA4BO-0354X [HART® – Mfg USA], 18-KA4BO-0355X [Fieldbus – Mfg USA]

**Markings** Ex ia IIC T5/T4 (HART®); Ex ia IIC T4 (Fieldbus)

## 9.12 Technical Regulations Customs Union (EAC)

### 9.12.1 EM EAC Flameproof

**Markings** Ga/Gb Ex db IIC T4...T6 X, T4/T5(-60 °C ≤ T<sub>a</sub> ≤ +80 °C), T6(-60 °C ≤ T<sub>a</sub> ≤ +70 °C)

#### Special Condition for Safe Use (X):

See certificate for special conditions.

### 9.12.2 IM EAC Intrinsically Safe

**Markings** HART®: 0Ex ia IIC T4/T5 Ga X, T4(-60 °C ≤ T<sub>a</sub> ≤ +70 °C), T5(-60 °C ≤ T<sub>a</sub> ≤ +40 °C)  
Fieldbus/PROFIBUS: 0Ex ia IIC T4 Ga X (-60 °C ≤ T<sub>a</sub> ≤ +60 °C)

#### Special Condition for Safe Use (X)

See certificate for special conditions.

## 9.13 Combinations

- K2** Combination of E2 and I2
- K5** Combination of E5 and I5
- K6** Combination of C6, E8, and I1
- K7** Combination of E7, I7, and N7
- K8** Combination of E8, I1, and N1
- KB** Combination of E5, I5, and C6
- KD** Combination of E8, I1, E5, I5, and C6
- KM** Combination of EM and IM
- KP** Combination of EP and IP

## 9.14 Additional certifications

**SBS** American Bureau of Shipping (ABS) Type Approval  
 Certificate: 18-HS1814795-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
EMC	B
Enclosure	D

**SLL** Lloyds Register (LR) Type Approval  
 Certificate: LR21173788TA  
 Application: Environmental categories ENV1, ENV2, ENV3, and ENV5

**C5** Custody Transfer - Measurement Canada Accuracy Approval  
 Certificate: AG-0226; AG-0454; AG-047

### 9.14.1 SBS American Bureau of Shipping (ABS) Type Approval

**Certificate** 18-HS1814795-PDA

**Intended use** Marine & Offshore Applications – Measurement of either gauge or absolute pressure for liquid, gas and vapor.

### 9.14.2 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.

### 9.14.3 SDN Det Norske Veritas (DNV) Type Approval

- Certificate** TAA000004F
- Intended Use** DNV GL rules for classification - ships and offshore units
- Application** **Table 9-10: Location Classes**

Temperature	D
Humidity	B
Vibration	A
EMC	B
Enclosure	D

### 9.14.4 SLL Lloyds Register (LR) Type Approval

- Certificate** 11/60002
- Application** Environmental categories ENV1, ENV2, ENV3, and ENV5

### 9.14.5 C5 Custody Transfer - Measurement Canada Accuracy Approval

- Certificate** AG-0226; AG-0454; AG-0477



### 9.15 EU Declaration of conformity




## EU Declaration of Conformity

**No: RMD 1017 Rev. AG**

---

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)

*March 24, 2023 ; Boulder, CO, USA*

---

(date of issue & place)

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## EU Declaration of Conformity

No: RMD 1017 Rev. AG

### 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

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

**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 (2014/53/EU)

**Model 3051 Pressure Transmitters**

Harmonized standard: EN 50581:2012

**Does not apply to the following options:**

- Wireless output code X
- Low power output code M



## EU Declaration of Conformity

No: RMD 1017 Rev. AG

**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, EN60079-11:2012

**BAS00ATEX3105X - Type n**

Equipment Group II Category 3 G

Ex nA IIC T5 Gc

Harmonized Standards Used:

EN60079-0:2012+A11:2013\*, EN60079-15:2010

\*(A review against EN IEC 60079-0:2018 which is harmonized, shows no significant changes relevant to this equipment so EN60079-0:2012 + A1 1 :2013 continues to represent "State of the Art".)

**Baseefa11ATEX0275X - Dust**

Equipment Group II Category 1 D

Ex ta IIIC T95°C T<sub>50</sub>105°C Da

Harmonized Standards Used:

EN 60079-0: 2012+A11: 2013\*, EN 60079-31: 2014

\*(A review against EN IEC 60079-0:2018 which is harmonized, shows no significant changes relevant to this equipment so EN60079-0:2012 + A1 1 :2013 continues to represent "State of the Art".)

**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



## EU Declaration of Conformity

No: RMD 1017 Rev. AG

### 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: 0573]  
Veritasveien 1, N-1322  
Hovik, Norway*

### 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









**Quick Start Guide**  
**00825-0100-4007, Rev. HC**  
**March 2023**

For more information: [Emerson.com](https://www.emerson.com)

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