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Quick Start Guide
00825-0100-4952, Rev GG
February 2026

Rosemount™ 0085 Pipe Clamp Sensor Assembly



ROSEMOUNT™


EMERSON

WARNING

Explosions could result in death or serious injury.

Do not remove the housing covers in explosive atmospheres when the circuit is live.

Before connecting a communication device in an explosive atmosphere, make sure the instruments in the loop are installed in accordance with intrinsically safe or non-incendive field wiring practices.

Verify the operating atmosphere of the sensor is consistent with the appropriate hazardous locations certifications.

Housing cover must be fully engaged to meet explosion-proof requirements.

WARNING

Failure to follow these installation guidelines could result in death or serious injury.

Ensure only qualified personnel perform the installation.

WARNING

Electrical shock could cause death or serious injury.

Avoid contact with the leads and terminals.

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.

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.

NOTICE

The products described in this document are NOT designed for nuclear-qualified applications. Using non-nuclear qualified products in applications that require nuclear-qualified hardware or products may cause inaccurate readings.

For information on Emerson nuclear-qualified products, contact your local Emerson Sales Representative.

This device is intended for use in temperature monitoring applications and must not be used in control and safety applications.

NOTICE

Read this manual before working with the product. For personal and system safety and for optimum product performance, ensure you thoroughly understand the contents before installing, using, or maintaining this product.

1 About this guide

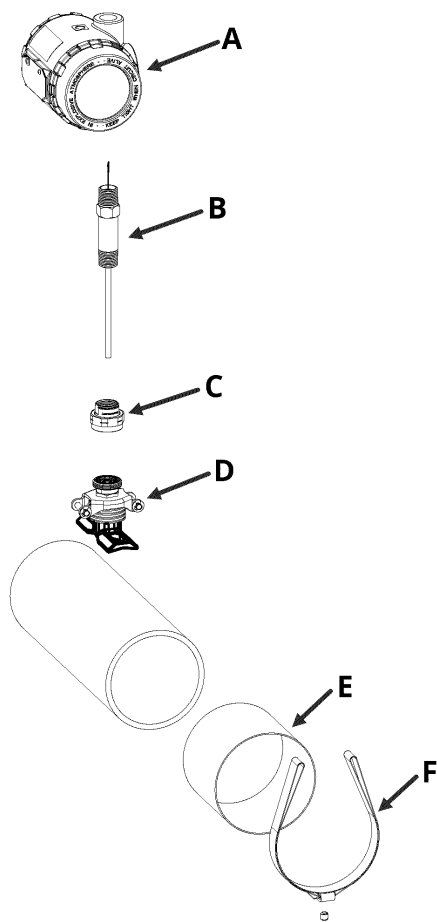
This guide provides basic guidelines for the Rosemount 0085 Pipe Clamp Sensor.

It does not provide instructions for configuration, diagnostics, maintenance, service, troubleshooting, explosion-proof, flameproof, or intrinsically safe (IS) installations.

If you ordered the sensor assembled to a temperature transmitter, see the appropriate transmitter *Quick Start Guide* for information on configuration and hazardous locations certifications.

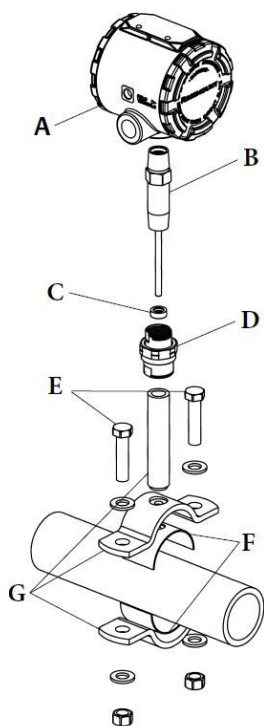
2 Exploded view drawings

Figure 2-1: Rosemount 0085 Universal Pipe Mount Exploded View



- A. Transmitter
- B. Sensor with spring-loaded adapter
- C. Nipple union
- D. Universal Pipe Mount
- E. Corrosion protection inlay (optional)
- F. Banding

Figure 2-2: Rosemount 0085 Pipe Clamp Sensor Assembly Exploded View



- A. Transmitter
- B. Sensor with spring-loaded adapter
- C. Wiper seal
- D. Nipple union of the extension
- E. Mounting hardware
- F. Corrosion protection inlay (optional)
- G. Pipe clamp & extension

3 Location and orientation

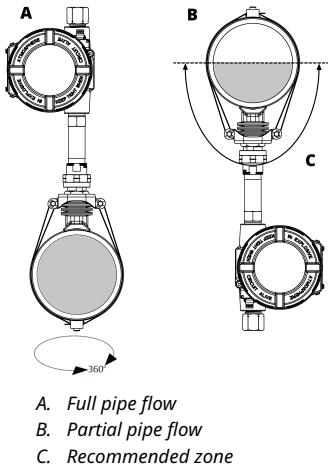
- Mount the clamp sensor on the outside section of the pipe where the process medium is in contact of the inside of the pipe wall.
- Ensure that the pipe surface is clean of debris.
- The pipe clamp sensor should be mounted in a secure position to ensure there is no rotational movement after installation.

3.1 Horizontal orientation

Emerson recommends mounting the pipe mount sensor on the upper half of the pipe.

Only consider bottom mounting when there is partial pipe flow in order to maintain accurate measurement.

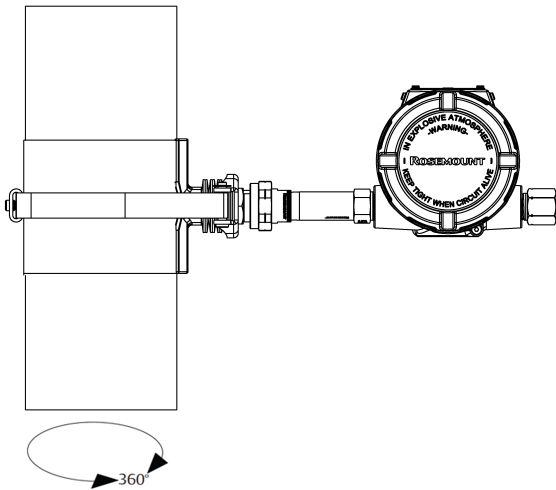
Figure 3-1: Horizontal orientation



3.2 Vertical orientation

The pipe clamp sensor can be installed in any position around the circumference of the pipe.

Figure 3-2: Vertical orientation

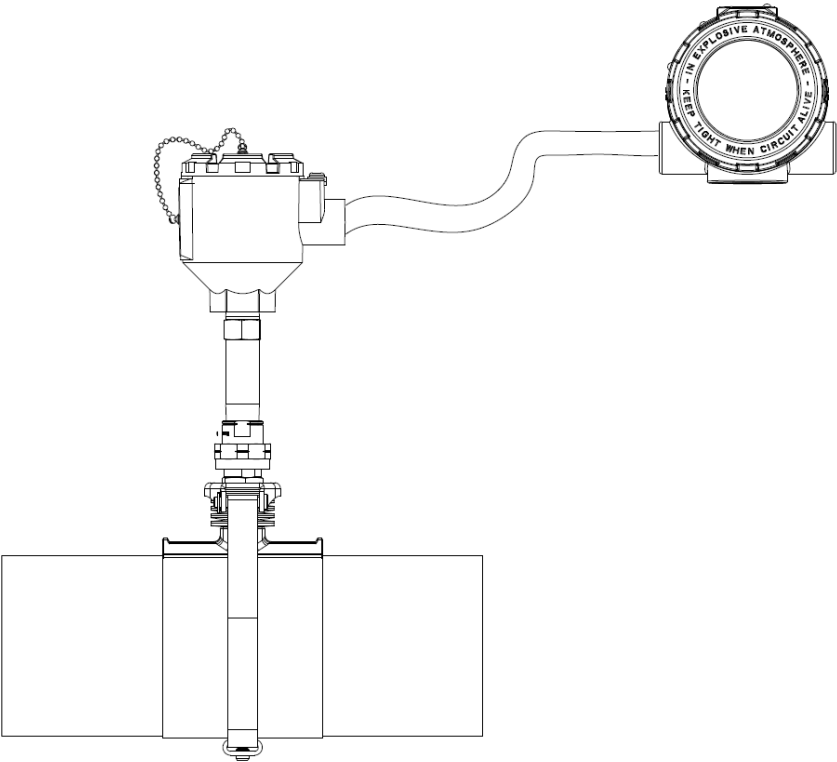


3.3 Special considerations

Under most circumstances, the Rosemount 0085 Pipe Clamp Sensor can be mounted in a direct mount configuration.

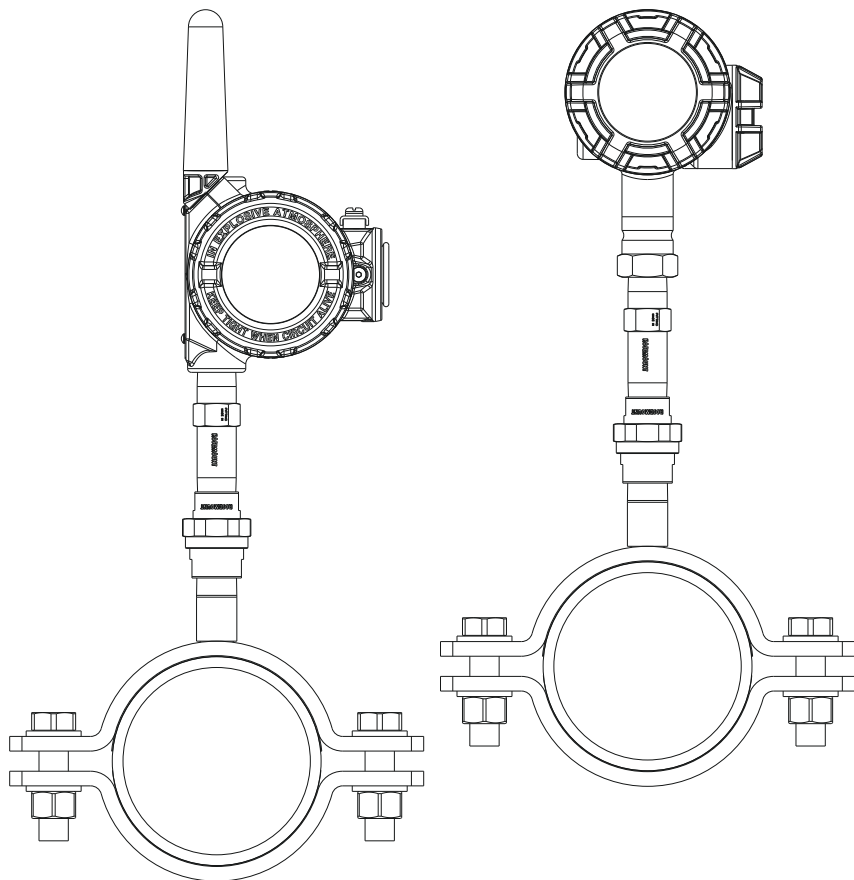
Since heat from the process is transferred from the pipe clamp sensor to the transmitter housing, if the expected process temperature is near or beyond specification limits, consider using a remote mount configuration to isolate the transmitter from the process. Refer to the appropriate transmitter *Manual* for temperature effects.

Figure 3-3: Pipe Clamp Sensor Assembly in Remote Mount Configuration



Wireless transmitters with external antennas allow for multiple antenna configurations. All wireless transmitters should be appropriately 3 ft. (1 m) from any large structure or building to allow clear communication to other devices. Wireless transmitters with external antennas should be positioned vertically, either straight up or straight down.

Figure 3-4: Wireless Transmitter Orientation



4 Installation

Select the area for Rosemount 0085 installation with the recommendations outlined in Horizontal orientation.

Start with [Install Universal Pipe Mount](#), [Install small pipe mount](#) or [Install pipe clamp sensor](#) depending on style of 0085 Pipe Clamp Sensor Assembly you ordered.

4.1 Install Universal Pipe Mount

Prerequisites

The tools required for installation are:

- Hand-crank banding tensioner tool
- 4 mm Allen wrench
- 1 1/16-inch or 27 mm open-ended wrench

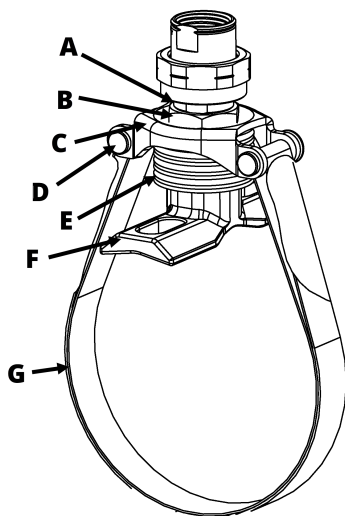


[Universal Pipe Mount installation video](#)

⚠ CAUTION

Emerson recommends wearing safety glasses and gloves during this process.

Figure 4-1: Universal pipe mount component overview



- A. Threaded stem
- B. Tension nut
- C. Tensioner plate
- D. Removable tension rods
- E. Springs
- F. Mount foot
- G. Banding and buckle

Procedure

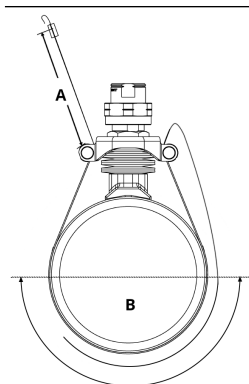
1. Place mount and banding on pipe.

Place the mount foot onto the pipe surface; then run the banding around the pipe and through the inside of the tensioner plate, making sure that the **screw side of the buckle is facing inward**, as shown.



2. Install banding loosely.

Bend the banding down around the rods of the tensioner plate. The end of the band with the buckle attached should be bent at a length that allows the buckle to sit near the bottom side of the pipe, opposite to the mount assembly. Acceptable location for the buckle is anywhere on the lower half of the pipe, opposite to the mount. The buckle must not fall within the distance between the tensioner plate and the pipe.



A. Slack length

B. Ideal buckle location



Due to limited surface area of small pipes, it can be challenging to judge the amount of banding slack length required to land the buckle on bottom side of pipe. For these small pipes, refer to the following tables for suggested slack length from buckle to bend over rod based on line size.

Table 4-1: Slack length (English)

Pipe size	Length to first bend (A)
2 in.	4.7 in.
2.5 in.	5.5 in.
3 in.	6.2 in.
4 in.	7.5 in.
5 in.	9 in.
6 in.	10.6 in.
8 in.	13.6 in.
10 in.	16.7 in.

Table 4-2: Slack length (Metric)

Pipe size	Length to first bend (A)
DN50	120 mm
DN65	140 mm
DN80	157 mm
DN100	192 mm
DN125	228 mm
DN150	254 mm

Table 4-2: Slack length (Metric) *(continued)*

Pipe size	Length to first bend (A)
DN200	346 mm
DN250	424 mm

3. Temporarily secure banding.

Wrap the free end of the band around the pipe and through the buckle. Fold back loose end at least 90° to temporarily secure the band in place. Then pull the banding snug and bend it so that it is perpendicular to the pipe.



4. Prepare banding for tensioning.

Place banding within tensioner tool. Place nose of tensioner tool against the buckle, and slide banding into tool.

Note

The position of the mount assembly may be moved after the banding has been tensioned, so the mount does not need to be in the final position during this step. Emerson recommends that the mount be positioned to allow for the most ergonomic use of the tensioner tool for this step.



5. Tension banding and mount.

Turn the crank on the tensioner tool to tighten the banding.

Tighten the banding until the tension nut can be moved freely.

6. Lock banding and tighten buckle.

Using a 4 mm Allen wrench, tighten the set screw on the buckle to lock the banding in place.

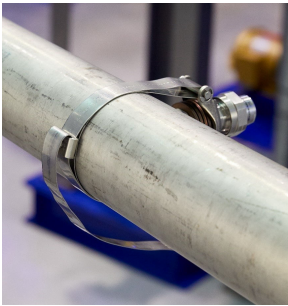


7. Remove tension tool.

Once the banding is secured, reduce tension on the tensioner tool by spinning the crank counter-clockwise and remove the tool. Then bend the loose end of the banding over top of the buckle.

Note

Emerson recommends leaving enough length of banding to allow for re-tensioning of the banding if ever necessary. If you choose to trim any excess banding, be sure to remove any sharp edges or burrs.

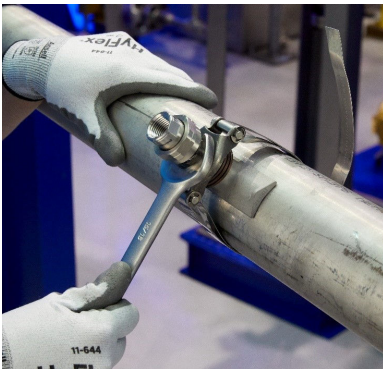


8. Final positioning.

With the banding tensioned, the mount assembly may now be moved to its desired location.

Using a 1 1/16-inch or a 27 mm open-ended wrench, turn the tension nut clockwise on the threaded stem until it contacts the tensioner plate.

Continue to tighten the tension nut to compress the springs until the banding loses tension and the mount may be freely moved around the pipe.



9. Finalize installation location and tension.

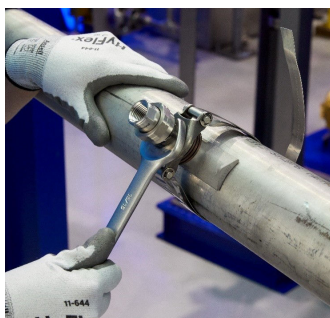
Once the Universal Pipe Mount is in its desired position, loosen the tension nut to decompress the spring to return tension to the banding. When loosening, return the tension nut to the top of the threaded stem.



4.2 Uninstall and reinstall Universal Pipe Mount

Procedure

1. Remove transmitter and sensor. During sensor uninstallation, stabilize the Universal Pipe Mount by placing $\frac{3}{8}$ -inch or 22 mm wrench on the flats of the threaded stem.
2. Using a 1 $\frac{1}{16}$ inch (27 mm) open-ended wrench, turn the tension nut clockwise on the threaded stem until it contacts the tensioner plate. Continue to tighten the tension nut to compress the springs until the banding loses tension and you can freely move the mount around the pipe.
3. Using a pair of pliers, pull off each e-clip and slide out each tension rod from the tensioner plate to remove the banding loop from the assembly. Reattach the tension rods and e-clips to the tensioner plate.

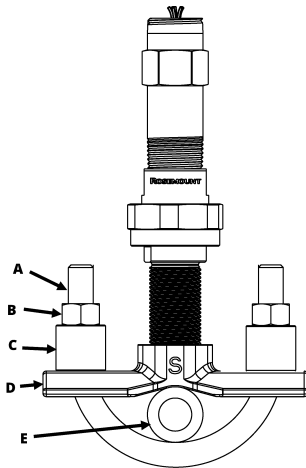


4. If reinstalling on the same pipe, reverse these steps to reassemble the Universal Pipe Mount and formed banding loop. If reinstalling on a new pipe, follow the standard installation instructions with a new set of banding.

4.3 Install small pipe mount



Figure 4-2: Small pipe mount component overview



- A. U-bolt
- B. Nut
- C. Spacer (shown) or washer
- D. Mount foot
- E. Pipe

Procedure

1. Place the mount foot assembly on the pipe with the slots running perpendicular to the pipe.
2. Insert U-bolt around the pipe and through the slots.

Emerson ships all small pipe mounts with two short washers and two tall spacers. For installation on line sizes ½-inch (DN15) to 1-inch (DN25), use only the spacers. For line sizes 1¼-inch (DN32) to 1½-inch (DN40), use only the washers.
3. Place first washer/spacer through threads of U-bolt to sit on top of foot mount assembly; then loosely tighten nut onto the same U-bolt thread.
4. Repeat [Step 3](#) for other side of U-bolt.
5. Incrementally tighten the nuts in an alternating manner until assembly sits squarely against the pipe.

6. Install transmitter and sensor assembly into foot mount assembly. During sensor installation, stabilize the small pipe mount by placing 1½-inch (29 mm) wrench on the flats of the foot mount. Ensure sensor passes through hole of mount foot and has direct contact between the sensor tip and pipe.

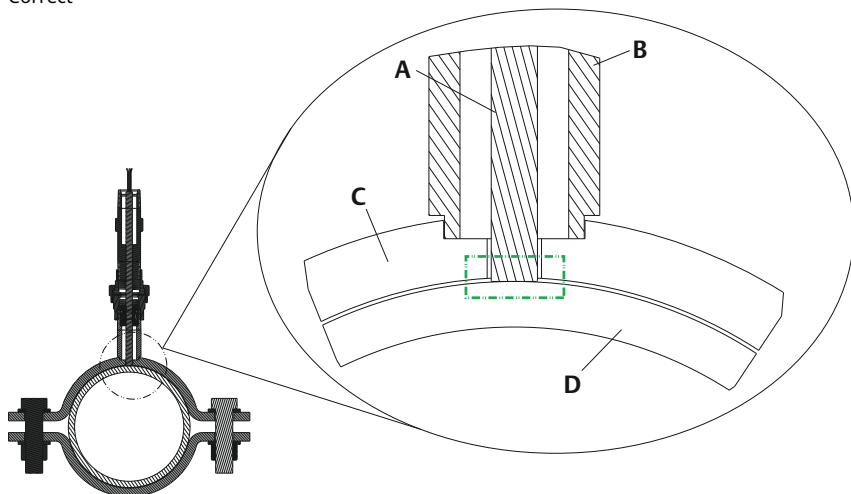
4.4 Install pipe clamp sensor

Mount the pipe clamp sensor on the pipe and tighten the bolts.

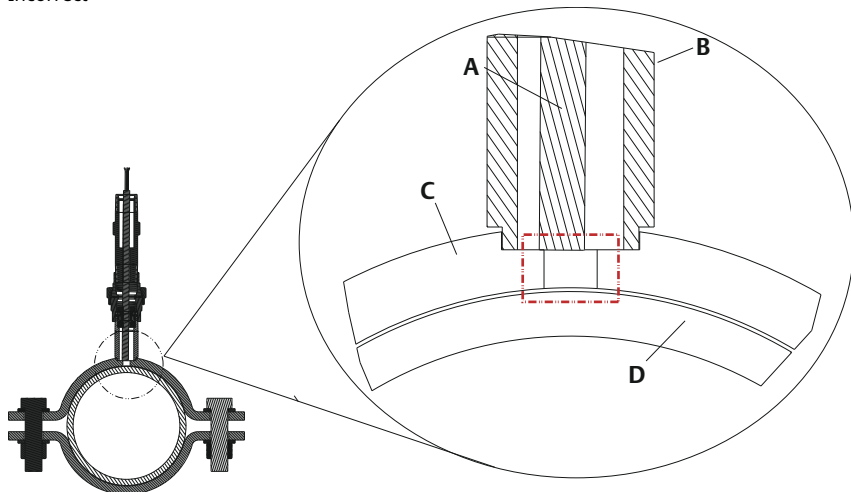
Ensure the sensor passes through the hole of the pipe clamp and has direct contact between the sensor tip and pipe. Refer to [Figure 4-3](#) for more information. Tighten the bolts to secure the pipe clamp sensor to the pipe.

Figure 4-3: Sensor Tip and Pipe Contact

Correct



Incorrect

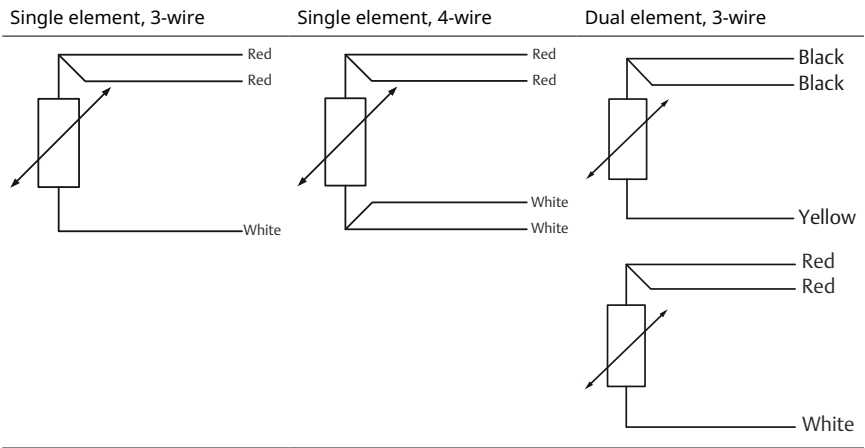


- A. Sensor
- B. Extension of pipe clamp
- C. Pipe clamp
- D. Pipe

4.5 Install transmitter

See appropriate transmitter *Manual* for sensor-transmitter installation.

Figure 4-4: Sensor Lead Wire Termination



4.6 Commissioning transmitter

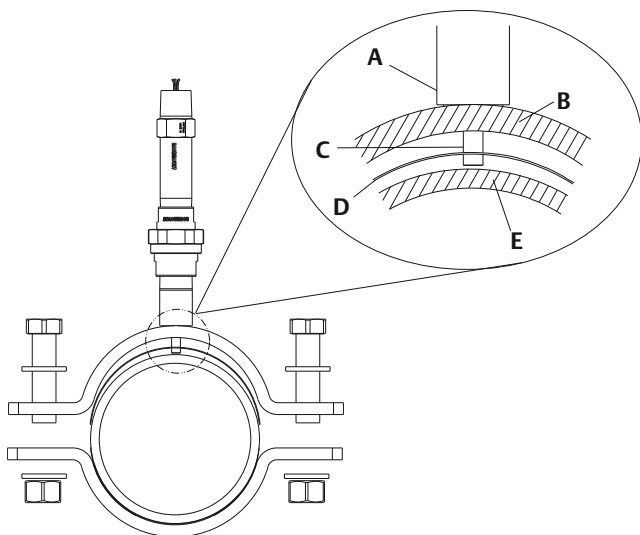
See appropriate transmitter *Manual* for transmitter commissioning instructions.

5 Installing optional accessories

Corrosion protection inlay

The corrosion protection inlay provides a layer of protection to help minimize the possibility of dissimilar metal corrosion between the pipe clamp and pipe. The inlay is installed in between the pipe clamp and the pipe. Ensure the sensor is clearing the hole in the protection inlay after installation.

Figure 5-1: Pipe Clamp Sensor Assembly with Protection Inlay



- A. Extension of pipe clamp
- B. Pipe clamp
- C. Sensor
- D. Corrosion protection inlay
- E. Pipe

5.1 Replace spring-loaded sensor

You can order a replacement spring-loaded sensor using the [Rosemount 0085 Pipe Clamp Sensor Product Data Sheet](#).

Procedure

1. Loosen and remove the original sensor from the extension of the pipe clamp.
2. Add pipe compound or PTFE tape (where local piping codes allow) to the threads of the new sensor.
3. Insert the new sensor into the extension of the pipe clamp sensor and ensure the sensor tip passes through the hole of the pipe clamp.
4. Screw in the sensor and tighten to 24 ft-lbs of torque.

6 Rosemount X-well™ Technology considerations

X-well Technology is for temperature monitoring applications and is not intended for control or safety applications.

It is available in the Rosemount 3144P Temperature Transmitter and Rosemount 648 Wireless Temperature Transmitter in a factory assembled direct mount configuration with a Rosemount 0085 Pipe Clamp Sensor. X-well Technology cannot be used in a remote mount configuration.

X-well Technology will only work as specified with factory supplied and assembled 0085 Pipe Clamp silver tipped single element sensor with a 3.1 in. (80 mm) extension length.

NOTICE

Temperature measurement will not work as specified if used with other sensors. Installation and use of an incorrect sensor will result in inaccurate process temperature calculations.

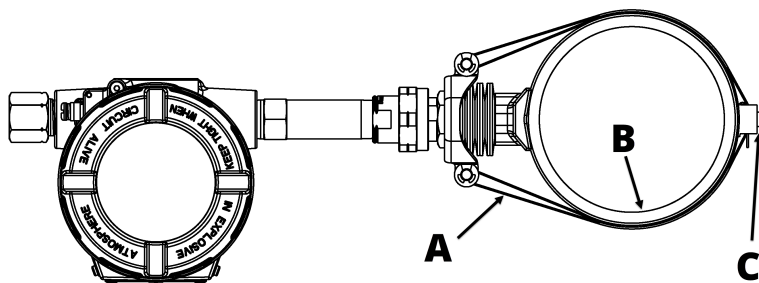
Note

It is extremely important the preceding requirements and installation steps are followed to ensure Rosemount X-well Technology works as specified.

In general, follow pipe clamp sensor installation best practices, as well as the following specific X-well Technology requirements:

- Direct mounting of the transmitter on a pipe clamp sensor is required for X-well Technology to properly function. [Figure 6-1](#) displays a transmitter/pipe clamp assembly that is in a direct mount configuration.
-

Figure 6-1: Pipe Clamp Sensor Assembly in Direct Mount Configuration



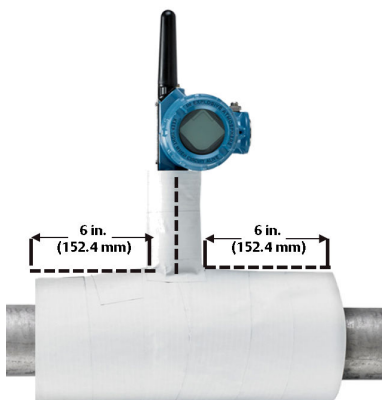
- A. Banding
 - B. Pipe
 - C. Buckle and screw
-

- Assembly must be installed away from dynamic external temperature sources, such as a boiler or heat tracing.
 - The pipe clamp sensor must make direct contact with the pipe surface. Moisture buildup between the sensor and the pipe surface or the sensor hangup in the assembly can cause inaccurate process temperature calculations.
 - Insulation at least ½-in. thick (with R-value of $> 0.42 \text{ m}^2 \times \text{K/W}$) is required over the sensor clamp assembly and the sensor extension up to the transmitter head to prevent heat loss. Apply a minimum of six inches of insulation on each side of the pipe clamp sensor.
-

Note

Take care to minimize air gaps between insulation and pipe. See [Figure 6-2](#) for more information.

Figure 6-2: Pipe Clamp Insulation



NOTICE

Do not apply insulation over the transmitter head.

- Although it will come from the factory configured as such, ensure that the pipe clamp RTD sensor is assembled in the correct wire configuration. Refer to the appropriate transmitter reference manual for correct wire configurations.

Related information

[Location and orientation](#)

[Install pipe clamp sensor](#)

7 Product certifications

7.1 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/global.

7.2 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).

7.3 Installing equipment in North America

The US National Electrical Code® (NEC) and the Canadian Electrical Code (CEC) permit the use of Division marked equipment in Zones and Zone marked equipment in Divisions. The markings must be suitable for the area classification, gas, and temperature class. This information is clearly defined in the respective codes.

7.4 North America

7.4.1 E5 USA Explosion-proof

Certificate	CSA15CA70044744X
Markings	XP CL I, DIV 1, GP B, C, D T6 (-50 °C ≤ T _a ≤ +80 °C); T5 (-50 °C ≤ T _a ≤ +95 °C) XP CL I, Zone 1, AEx db IIC T6...T1 Gb T6...T1 (See Table 7-1) Type 4x Install per Rosemount 00214-1030 V _{max} 35 VDC, 750 mW _{max}

Conditions of Acceptability

1. Flameproof joints are not intended for repair.
2. 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.
3. When provided on their own, adapter style sensors must be assembled to a suitable Ex db enclosure with a free internal volume no greater than 550 cm³.
4. See instructions for relation between process temperature, ambient temperature, and temperature class/maximum surface temperature “T”.

Table 7-1:

Process Temperature Range (°C)	Ambient Temperature Range (°C)	Temperature Class
-60°C to +80°C	-60°C to +80°C	T6

Table 7-1: (continued)

Process Temperature Range (°C)	Ambient Temperature Range (°C)	Temperature Class
-60°C to +95°C	-60°C to +80°C	T5
-60°C to +130°C	-60°C to +80°C	T4
-60°C to +195°C	-60°C to +80°C	T3
-60°C to +290°C	-60°C to +80°C	T2
-60°C to +440°C	-60°C to +80°C	T1

7.4.2 E6 Canada Explosionproof

Certificate CSA15CA70044744X

Markings XP CL I, DIV 1, GP B, C, D
T6 (-50 °C ≤ T_a ≤ +80 °C), T5 (-50 °C ≤ T_a ≤ +95 °C)
XP Ex db IIC T6...T1 Gb
T6...T1 (See [Table 7-1](#))
Type 4x
Install per Rosemount 00214-1030
V_{max} 35 VDC, 750 mW_{max}

Conditions of Acceptability

1. Flameproof joints are not intended for repair.
2. 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.
3. When provided on their own, adapter style sensors must be assembled to a suitable Ex db enclosure with a free internal volume no greater than 550 cm³.
4. See instructions for relation between process temperature, ambient temperature, and temperature class/maximum surface temperature “T”.

7.5 Europe

7.5.1 E1 ATEX Flameproof

ATEX Certificate DEKRA 19ATEX0076X

Markings  II 2 G Ex db IIC T6...T1 Gb
T6...T1 (See [Table 7-1](#))

Specific Conditions of Use

1. Flameproof joints are not intended for repair.
2. 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.
3. When provided on their own, the adapter style sensors must be assembled to a suitable Ex db enclosure with a free internal volume no greater than 650 cm³.
4. See instructions for relation between process temperature, ambient temperature, and temperature class/maximum surface temperature “T”.

7.5.2 I1 ATEX Intrinsic Safety

Certificate Baseefa 16ATEX0101X

Markings

 II 1 G Ex ia IIC T5/T6 Ga see certificate for schedule
See Tables [Table 7-2](#) and [Table 7-3](#) for entity parameters.

Specific Conditions of Use

1. The equipment must be installed in an enclosure which affords it a degree of ingress protection of at least IP20.

Table 7-2:

Ui	60 V
Ii	100 mA
Pi	See Table 7-3 .
Ci	75 pF
Li	600 nH
Uo	100 mV (T/C)
Io	50 mW (T/C)
Po	25 mW (T/C)

Table 7-3:

Thermocouples; Pi = 500 mW	T6 (-60 °C ≤ Ta ≤ +70 °C)
RTDs; Pi = 192 mW	T6 (-60 °C ≤ Ta ≤ +70 °C)
RTDs; Pi = 290 mW	T6 (-60 °C ≤ Ta ≤ +60 °C) T5 (-60 °C ≤ Ta ≤ +70 °C)

7.6 International
7.6.1 E7 IECEx Flameproof

Certificate

IECEx DEK 19.0041X

Markings

Ex db IIC T6...T1 Gb
T6...T1 (See [Table 7-1](#))

Specific Conditions of Use

1. Flameproof joints are not intended for repair.
2. 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.
3. When provided on their own, the adapter style sensors must be assembled to a suitable Ex db enclosure with a free internal volume no greater than 650 cm³.
4. See instructions for relation between process temperature, ambient temperature, and temperature class/maximum surface temperature "T".

7.6.2 I7 IECEx Intrinsic Safety

Certificate

IECEx BAS 16.0077X

Markings

Ex ia IIC T5/T6 Ga
See [Table 7-2](#) and [Table 7-3](#) for entity parameters.

Specific Conditions of Use

1. The equipment must be installed in an enclosure which affords it a degree of ingress protection of at least IP20.

7.7

EAC

7.7.1

EM EAC Flameproof

Certificate	EAC KZ 7500525.01.01.01175
Markings	1Ex db IIC T6...T1 Gb X T6...T1 (See Table 7-1)

Specific Conditions of Use

1. See certificate for specific condtions of use.

7.7.2

IM EAC Intrinsic Safety

Certificate	EAC KZ 7500525.01.01.01175
Markings	0Ex ia IIC T5, T6 Ga X See Table 7-2 and Table 7-3 for entity parameters.

Specific Conditions of Use

1. See certificate for specific condtions of use.

7.8

Korea

7.8.1

EP Explosion-proof/Flameproof

Certificate	22-KA4BO-0072X
Markings	Ex db IIC T6...T1 Gb T6...T1 (See Table 7-1)

Specific Conditions of Use

1. See certificate for specific condtions of use.

7.9

China

E3 China Flameproof 隔爆和粉尘防爆

证书:	GYJ20.1393X (CCC 认证)
所用标准:	GB3836.1 – 2010, GB3836.2 – 2010, GB12476.1-2013, GB12476.5-2013
标志:	Ex d IIC T1...T6 Gb

特殊使用条件(X):

1. 涉及隔爆接合面的维修须联系产品制造商。
2. 铭牌材质为非金属，使用时须防止产生静电火花，只能用湿布清理。

使用注意事项

1. 产品温度组别和防爆标志及使用环境温度之间的关系为：

防爆标志	温度组别	使用环境温度
Ex d II C T1~T6 Gb	T6	-50 °C ~ +40 °C
	T1~T5	-50 °C ~ +60 °C

2. 产品温度组别和过程温度之间的关系为：

温度组别	T6	T5	T4	T3	T2	T1
过程温度 (°C)	85	100	135	200	300	450

3. 产品外壳设有接地端子，用户在使用时应可靠接地。
4. 安装现场应不存在对产品外壳有腐蚀作用的有害气体。
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、GB3836.13-2013“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/T3836.16-2017“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”和 GB15577-2018“粉尘防爆安全规程”的有关规定。

7.10 Y3 ATEX/IECEx RFID tag approvals

WARNING

Additional warnings

The plastic enclosure may present a potential electrostatic ignition hazard.

RFID tag is suitable for installation in a limited set of Zone classified locations and ambient temperature ranges when compared to the transmitter.

Certificate	EPS 15 ATEX 11011X
Markings	 II 2G Ex ia IIC T6/T4 Gb  II 2D Ex ia IIIC T80 °C/T130 °C Db
Certificate	IECEx EPS 15.0042X
Markings	Ex ia IIC T6/T4 Gb Ex ia IIIC T80 °C/T130 °C Db

Specific Conditions of Use (X):

1. Maximum ambient temperature range:

-55 °C to +80 °C (T6 / T80 °C)
 -55 °C to +110 °C (T4 / T130 °C)
2. The RFID tags shall never be exposed to high electromagnetic field strengths exceeding RMS values of 1 A/m or 3 V/m, e.g., in high current electrolysis plants.
3. Electrostatic charges shall be avoided. The tags shall never be used next to strong charge generating processes.

8 Declaration of Conformity



EU DECLARATION OF CONFORMITY



This declaration of conformity, issued under the sole responsibility of

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

states that the

Rosemount™ Model 85, 214C, and 214XW Temperature Sensors

complies with the provisions of the European Union Directives, including the latest amendments, valid at the time this declaration was signed.

	<i>October 29, 2025</i>	Mark Lee	Vice President, Quality	Boulder, CO, USA
(signature & date of issue)		(name)	(function)	(place of issue)

Authorized Representative in Europe:
Emerson S.R.L., company No. J12/88/2006
Emerson 4 street, Parcul Industrial
Tetaram II, Cluj-Napoca 400638, Romania

Regulatory Compliance Shared Services Department
Email: europaeproductcompliance@emerson.com Phone: +40 374 132 035

ATEX Notified Bodies for EU Type Examination Certificates:
DEKRA Certification B.V. [Notified Body Number: 0344]

Meander 1051, 6825 MJ ARNHEM Netherlands	P.O. Box 5185, 6802 ED ARNHEM Netherlands
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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



EU DECLARATION OF CONFORMITY



EMC Directive (2014/30/EU)

Harmonized Standards:

EN 61326-1:2013

EN 61326-2-3:2013

RoHS Directive (2011/65/EU)

Harmonized Standards:

EN IEC 63000:2018

ATEX Directive (2014/34/EU)

EU-Type Examination Certificate: Baseefa16ATEX0101X

Equipment protection by intrinsic safety "i"

Equipment Group II Category 1 G

Ex ia IIC T5/T6 Ga

Harmonized Standards:

EN IEC 60079-0:2018

EN 60079-11:2012

EU-Type Examination Certificate: DEKRA 19ATEX0076X

Equipment protection by flameproof enclosure "d"

Equipment Group II Category 2 G

Ex db IIC T6...T1 Gb

Equipment dust ignition protection by enclosure "t"

Equipment Group II Category 2 D

Ex tb IIIC T130°C Db

Harmonized Standards:

EN IEC 60079-0: 2018

EN 60079-1: 2014

EN 60079-31: 2014

Ex tb markings do not apply to Models 85 and 214XW

Type Examination Certificate: BAS00ATEX3145

Equipment protection by type of protection "n"

Equipment Group II, Category 3 G

Ex nA IIC T5 Gc

Equipment protection by increased safety "e"

Equipment Group II Category 3 G

Ex ec IIC T5 Gc

Harmonized Standards:

EN IEC 60079-0:2018

EN IEC 60079-7:2015+A1:2018

EN 60079-15:2010

Ex nA and Ex ec markings do not apply to Models 85 and 214XW

含有 China RoHS 管控物质超过最大浓度限值的部件型号列表 0085
List of 0085 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				壳体组件 Housing Assembly	传感器组件 Sensor Assembly
有害物质 Hazardous Substances	铅	Lead	(Pb)	X	O
	汞	Mercury	(Hg)	O	O
	镉	Cadmium	(Cd)	O	O
	六价铬	Hexavalent chromium	(Cr(VI))	O	O
	多溴联苯	Polybrominated biphenyls	(PBBs)	O	O
	多溴联苯醚	Polybrominated diphenyl ethers	(PBDEs)	O	O
	邻苯二甲酸二正丁酯	Dibutyl phthalate	(DBP)	O	O
	邻苯二甲酸二异丁酯	Diisobutyl phthalate	(DIBP)	O	O
	邻苯二甲酸丁苯酯	Butyl benzyl phthalate	(BBP)	O	O
	邻苯二甲酸二(2-乙基)己酯	Bis(2-ethylhexyl) phthalate	(DEHP)	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过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
壳体组件 Housing Assembly	电子外壳 Electrical Housing



Quick Start Guide
00825-0100-4952, Rev. GG
February 2026

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

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