

Rosemount™ 705 Wireless Totalizing Transmitter



WirelessHART 

- An installation-ready solution that provides simple connection to a turbine meter.
- Measures average flow and totalized volume.
- Flow and volume are continuously measured between wireless updates.
- Self-organizing network delivers information rich data with >99 percent data reliability totalized volume.

NOTICE

This guide provides basic guidelines for the Rosemount 705 Transmitter. It does not provide instructions for detailed configuration, diagnostics, maintenance, service, troubleshooting, or installations. Refer to the Rosemount 705 [Reference Manual](#) for more instruction. This guide and the manual are available electronically on Emerson.com/Rosemount.

⚠ WARNING

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.
- Ensure device is installed in accordance with intrinsically safe or non-incendive field practices.

Electrical shock can result in death or serious injury.

- Ground device to prevent electrostatic charge build-up. Care must be taken during transportation of power module to prevent electrostatic charge build-up.
- Device must be installed to ensure a minimum antenna separation distance of 8-in. (20 cm) from all persons.

Process leaks could result in death or serious injury.

- Handle the transmitter carefully.
- Failure to follow safe installation guidelines could result in death or serious injury.
- Only qualified personnel should install the equipment.

NOTICE

Shipping considerations for wireless products:

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

Each power module contains two “C” size primary lithium batteries. Primary lithium batteries are regulated in transportation by the U.S. Department of Transportation, and are also covered by IATA (International Air Transport Association), ICAO (International Civil Aviation Organization), and ARD (European Ground Transportation of Dangerous Goods). It is the responsibility of the shipper to ensure compliance with these or any other local requirements. Consult current regulations and requirements before shipping.

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1.0 Seal and protect threads

Use anti-seize paste or PTFE tape according to your site procedures.

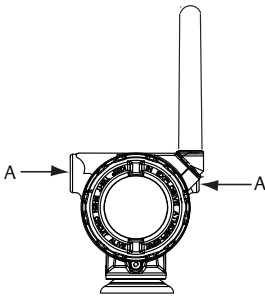
1.1 Required equipment

- Standard tools (e.g. screwdriver, wrench, pliers)
- Anti-seize paste or PTFE tape (for threaded connection)
- AMS Device Manager version 12.0 or later, or Field Communicator

1.2 Conduit entries

Upon installation, ensure each conduit entry is either sealed with a conduit plug with appropriate thread sealant, or has an installed conduit fitting or cable gland with appropriate thread sealant. Note the conduit entries on the Rosemount 705 Transmitter are threaded $1/2-14$ NPT.

Figure 1. Conduit Entry



A. Conduit entry

2.0 Mount transmitter on a turbine meter or pulse output device

2.1 General considerations

The Rosemount 705 Transmitter and all other wireless devices should not be set up until after the Smart Wireless Gateway (Gateway) has been installed and is functioning properly.

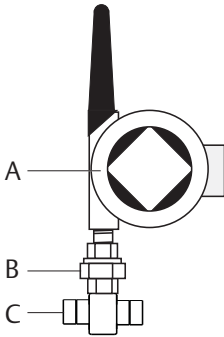
The transmitter can be installed in one of two configurations:

- Direct mount (D1), where the turbine meter is connected directly to the transmitter housing's conduit entry
- Remote mount (R1), where the turbine meter is mounted separate from the transmitter housing, then connected to the transmitter via conduit

Select the installation sequence that corresponds to the mounting configuration.

Direct mount

Figure 2. Direct Mount



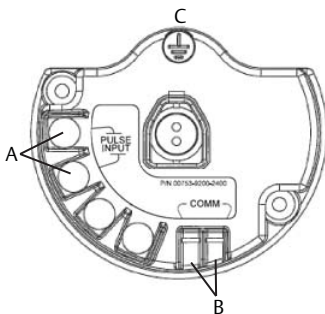
- A. Rosemount 705 Transmitter
- B. 1-in. NPT connection to flow meter and two-piece pipe union
- C. Turbine meter

Note

Direct mount installation should not be employed when using tubing and connectors such as Swagelok® fittings.

1. Install the turbine meter according to standard installation practices making sure to use thread sealant on all connections.
2. Attach the turbine meter wiring to the terminals as indicated on the wiring diagram (Figure 3). This procedure is already included for the D1 (direct mount) option.

Figure 3. Terminal Block



- A. Pulse input connection
- B. HART® terminal connection
- C. Terminal block ground connection

3. Attach the transmitter housing to the turbine meter using the threaded conduit entry.
4. Seal threads on 1-in. NPT turbine meter connection. Take union apart and turn on bottom fitting to turbine meter.
5. Attach mill spec connector to turbine meter pickup.
6. Screw on the remaining union part.

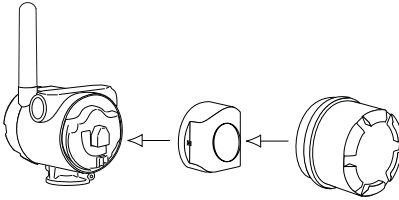
Note

Sealant should already be applied to threads on the D1 (direct mount) option.

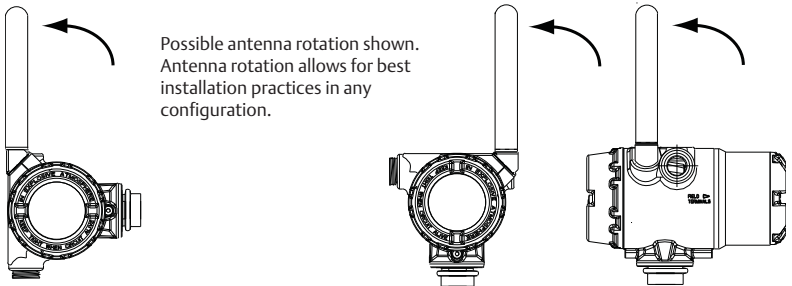
Note

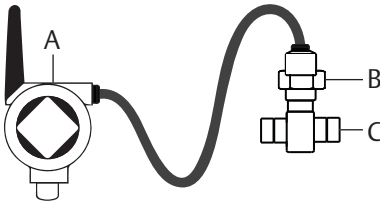
Wireless devices should be powered up with the proper join key and network ID in order of proximity from the Gateway. Beginning with the closest device to the Gateway will result in a faster network installation.

7. Connect the black power module.



8. Close the housing cover and tighten to safety specification. Always ensure a proper seal so that metal touches metal, but do not over tighten.
9. Position antenna vertically, either straight up or straight down.
 - The antenna should be approximately 3 ft. (0.91 m) from any large structures or buildings, to allow clear communication to other devices.



Remote mount⁽¹⁾**Figure 4. Remote Mount**

- A. Rosemount 705 Transmitter
 B. 1-in. supplied cable gland adaptor for turbine meter
 C. Turbine meter

1. Install the turbine meter according to standard installation practices making sure to use thread sealant on all connections.
2. Pull the cable connection wiring through the supplied cable gland adaptor for the turbine meter. Then pull the cable wiring through the transmitter cable gland.

Note

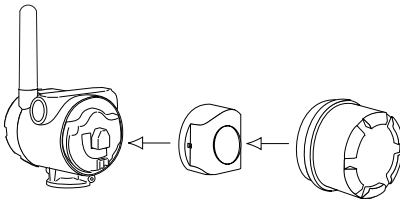
Pay attention to the orientation of the cable gland to ensure proper connection to transmitter.

3. Attach the wiring to the terminals as indicated in [Figure 3 on page 4](#).

Note

Wireless devices should be powered up with the proper join key and network ID in order of proximity from the Gateway. Beginning with the closest device to the Gateway will result in a faster network installation.

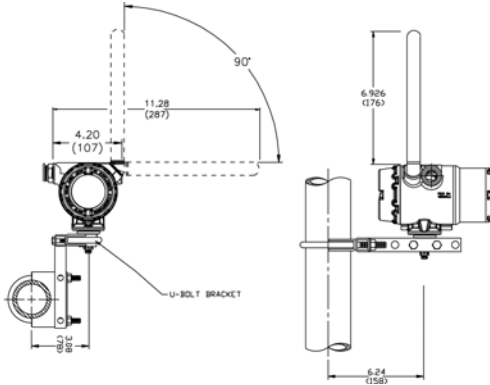
4. Connect the black power module.



5. Close the housing cover and tighten to safety specification. Always ensure a proper seal so that metal touches metal, but do not over tighten.

1. Included:
 (1) Cable gland
 (1) Cable gland adaptor for turbine meter
 10 ft. of cable connection wiring

6. Position the antenna vertically and straight up.
 - The antenna should be approximately 3 ft. (0.91 m) from any large structures or buildings, to allow clear communication to other devices.



2.2 Remote antenna (optional)

The remote antenna option provides flexibility for mounting the Rosemount 705 Transmitter based on wireless connectivity, lightning protection, and current work practices.

⚠ WARNING

When installing remote mount antennas for the transmitter, always use established safety procedures to avoid falling or contact with high-power electrical lines.

Install remote antenna components for the transmitter in compliance with local and national electrical codes and use best practices for lightning protection.

Before installing, consult with the local area electrical inspector, electrical officer, and work area supervisor.

The transmitter remote antenna option is specifically engineered to provide installation flexibility while optimizing wireless performance and local spectrum approvals. To maintain wireless performance and avoid non-compliance with spectrum regulations, do not change the length of cable or the antenna type.

If the supplied remote mount antenna kit is not installed per these instructions, Emerson™ is not responsible for wireless performance or non-compliance with spectrum regulations.

The remote mount antenna kit includes coaxial sealant that is for the cable connections, lightning arrestor, and antenna.

Find a location where the remote antenna has optimal wireless performance. Ideally this will be 15–25 ft. (4.6–7.6 m) above the ground or 6 ft. (2 m) above obstructions or major infrastructure. To install the remote antenna, use one of the following procedures. The WN option includes 25 ft. (7.6 m) of cable and the WJ option includes 10 ft. (3 m) of cable.

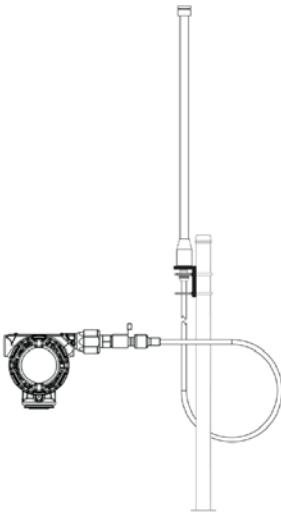
WN/WJ remote antenna option

1. Mount the antenna on a 1.5- to 2-in. pipe mast using the supplied mounting equipment.
2. Connect the lightning arrestor directly to the top of the Rosemount 705 Transmitter.
3. Install the grounding lug, lock washer, and nut on top of lightning arrestor.

4. Connect the antenna to the lightning arrester using the supplied LMR-400 coaxial cable ensuring the drip loop is not closer than 1 ft. (0.3 m) from the lightning arrester.
5. Use the coaxial sealant to seal each connection between the wireless field device, lightning arrester, cable, and antenna.
6. Ensure the mounting mast and lightning arrester are grounded according to local/national electrical code.

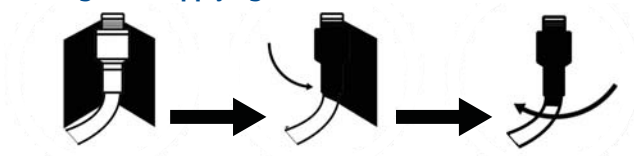
Note

Any spare lengths of coaxial cable should be placed in 12-in. (0.3 m) coils.

Figure 5. Rosemount 705 Totalizer with Remote Antenna

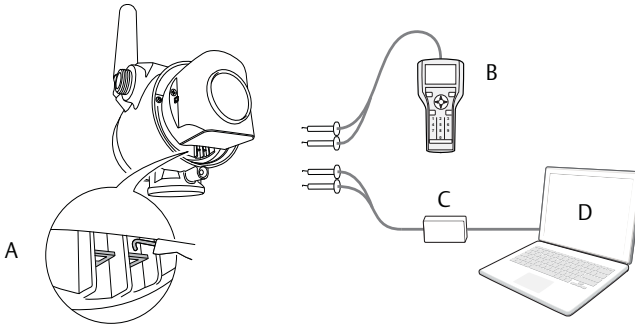
Note: Weatherproofing

The remote mount antenna kit includes coaxial sealant for weatherproofing the cable connections for the lightning arrester, antenna, and Rosemount 705 Transmitter. Coaxial sealant must be applied to ensure performance of the wireless field network. See [Figure 6](#) for details on how to apply coaxial sealant.

Figure 6. Applying Coaxial Sealant to Cable Connections

3.0 Connect to device

Figure 7. Device Connection



- A. Communication terminals
- B. Field Communicator
- C. HART Modem
- D. AMS Device Manager

3.1 Field Communicator connections

The power module needs to be installed before the Field Communicator can interface with the transmitter. This transmitter uses the black power module; order model number 701PBKKF.

3.2 AMS Wireless Configurator

1. Start AMS Wireless Configurator.
2. In the *View* menu, select **Device Connection View**.
3. Double click on the device under the HART modem.

3.3 Field Communicator

1. Turn on the Field Communicator.
2. Tap the HART symbol on the main menu.

The Field Communicator now connects to the device.

4.0 Configure device using guided setup in AMS Device Manager

1. Go to *Configure>Guided Setup>Initial Setup*.
2. Select **Basic Setup** and follow the prompts for configuration.
3. Consider optional setup, such as *Update Rate* and *Device Display*.

4.1 Join device to network

1. Go to *Overview>Shortcuts*.
2. Select **Configure Update Rate** and follow the instructions.
3. Obtain *Network ID* and *Join Key* for the wireless network (available in wireless Gateway).
4. Select **Join Device to Network** and follow the instructions.

4.2 Wait for device to join network



1. Go to *Overview*.
2. Wait for communication status to become *Connected*.

Note

This takes several minutes. Enable Active Advertising on the Gateway to ensure new devices are able to join the network faster. For more information see the Smart Wireless Gateway [Reference Manual](#).

5.0 Configure k-factor (calibration factor) for pulse output device or turbine meter

Note

The steps below apply if the k-factor is not preconfigured to the transmitter.

5.1 Primary method

1. Go to *Configure>Guided Setup>Basic setup*. This will walk you through setting the device up for first time use.

5.2 Other methods

1. Go to *Configure>Manual Setup>Totalizing Options*. This is the main interface for establishing the k-factor as well as other features including low flow cutoff and manual rollover adjustments.
2. On a HART Handheld, you can configure the k-factor by going to *Configure>Manual Setup>Totalizing Options>Turbine Configuration>k factor*.

For more information on these features, see the Rosemount 705 [Reference Manual](#).

6.0 Product Certifications

Rev 1.1

6.1 European Directive Information

A copy of the EC Declaration of Conformity can be found at the end of the Quick Start Guide. The most recent revision of the EC Declaration of Conformity can be found at Emerson.com/Rosemount.

6.2 Telecommunication Compliance

All wireless devices require certification to ensure that they adhere to regulations regarding the use of the RF spectrum. Nearly every country requires this type of product certification. Emerson is working with governmental agencies around the world to supply fully compliant products and remove the risk of violating country directives or laws governing wireless device usage.

6.3 FCC and IC

This device complies with Part 15 of the FCC Rules. Operation is subject to the following conditions: This device may not cause harmful interference. This device must accept any interference received, including interference that may cause undesired operation. This device must be installed to ensure a minimum antenna separation distance of 20 cm from all persons.

6.4 Ordinary Location Certification from CSA

The transmitter has been examined and tested to determine that the design meets the basic electrical, mechanical, and fire protection requirements by CSA, a nationally recognized test laboratory (NRTL) as accredited by the Federal Occupational Safety and Health Administration (OSHA).

6.5 Installing in North America

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

USA

15 USA Intrinsically Safe (IS)

Certificate: CSA 70011131

Standards: FM 3600 – 2011, FM 3610 – 2010, UL Standard 50 – Eleventh Edition, UL 61010-1 – 3rd Edition, ANSI/ISA-60079-0 (12.00.01) – 2013, ANSI/ISA-60079-11 (12.02.01) – 2013, ANSI/IEC 60529 – 2004

Markings: IS CL I, DIV 1, GPA, B, C, D T4; Class 1, Zone 0, AEx ia IIC T4 Ga; T4 (–50 °C ≤ T_a ≤ +70 °C) when installed per Rosemount drawing 00705-1020; Type 4X; IP66

See the table at the end of this section for entity parameters.

N5 USA Division 2, Nonincendive

Certificate: CSA 70011131

Standards: FM 3600 – 2011, FM 3611 – 2004, UL Standard 50 – Eleventh Edition, UL 61010-1 (3rd Edition), ANSI/IEC 60529 – 2004Markings: NI CL I, DIV 2, GP A, B, C, D T4; T4 ($-50\text{ }^{\circ}\text{C} \leq T_a \leq +70\text{ }^{\circ}\text{C}$); Type 4X; IP66**Special Conditions for Safe Use (X):**

1. For use only with the Model 701P or Rosemount P/N 753-9220-XXXX Smart Power Battery Module.
2. The surface resistivity of the antenna is greater than 1 GΩ. To avoid electrostatic charge build-up, it must not be rubbed or cleaned with solvents or a dry cloth.

Canada**I6** Canada Intrinsically Safe (IS)

Certificate: CSA 70011131

Standards: CAN/CSA C22.2 No. 0-10, CAN/CSA C22.2 No. 94-M91, CSA Std C22.2 No.142-M1987, CAN/CSA-60079-0 - 2011, CAN/CSA-60079-11 - 2014, CSA Std C22.2 No. 60529 - 2005, CAN/CSA-C22.2 No. 61010-1 - 2012

Markings: IS CL I, DIV 1, GP A, B, C, D T4; Ex ia IIC T4 Ga, T4; T4 ($-50\text{ }^{\circ}\text{C} \leq T_a \leq +70\text{ }^{\circ}\text{C}$) when installed per Rosemount drawing 00705-1020; Type 4X; IP66

See the table at the end of this section for entity parameters.

N6 Canada Division 2, Nonincendive

Certificate: CSA 70011131

Standards: CAN/CSA C22.2 No. 0-10, CAN/CSA C22.2 No. 94-M91, CSA Std C22.2 No. 213-M1987 (R2013), CAN/CSA-60079-0 - 2011, CAN/CSA Std C22.2 No. 60529 - 2005, CAN/CSA-C22.2 No. 61010-1 - 2012


Markings: Suitable for Class 1, Division 2, Groups A, B, C, D T4; T4 ($-50\text{ }^{\circ}\text{C} \leq T_a \leq +70\text{ }^{\circ}\text{C}$); Type 4X; IP66**Special Conditions for Safe Use (X):**

1. For use only with the Model 701P or Rosemount P/N 753-9220-XXXX Smart Power Battery Module.
2. The surface resistivity of the antenna is greater than 1 GΩ. To avoid electrostatic charge build-up, it must not be rubbed or cleaned with solvents or a dry cloth.

Europe**I1** ATEX Intrinsic Safety

Certificate: Baseefa14ATEX0375X

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

Markings:  II 1 G Ex ia IIC T4 Ga, T4 ($-50\text{ }^{\circ}\text{C} \leq T_a \leq +70\text{ }^{\circ}\text{C}$)

For use with Rosemount SmartPower™ power module part number 753-9220-0001, or for use with Emerson SmartPower option 701PBKKF.

See the table at the end of this section for entity parameters.

Special Conditions for Safe Use (X):


1. The surface resistivity of the antenna is greater than 1 GΩ. To avoid electrostatic charge build-up, it must not be rubbed or cleaned with solvents or a dry cloth.
2. The Model 701PBKKF Power Module may be replaced in a hazardous area. The Power Modules have a surface resistivity greater than 1G? and must be properly installed in the wireless device enclosure. Care must be taken during transportation to and from the point of installation to prevent electrostatic charge build-up.

- The 705 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 a Zone 0 area.

IU ATEX Intrinsic Safety for Zone 2

Certificate: Baseefa15ATEX0059X

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

Markings:  II 3 G Ex ic IIC T4 Gc, T4(-50 °C ≤ T_a ≤ +70 °C)

For use with Rosemount SmartPower power module part number 753-9220-0001, or for use with Emerson SmartPower option 701PBKKF.

See the table at the end of this section for entity parameters.

Special Conditions for Safe Use (X):

- The surface resistivity of the antenna is greater than 1 GΩ. To avoid electrostatic charge build-up, it must not be rubbed or cleaned with solvents or a dry cloth.
- The Model 701PBKKF Power Module may be replaced in a hazardous area. The Power Modules have a surface resistivity greater than 1G? and must be properly installed I the wireless device enclosure. Care must be taken during transportation to and from the point of installation to prevent electrostatic charge build-up.
- The 705 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 a Zone 0 area.

International

I7 IECEx Intrinsic Safety

Certificate: IECEx BAS 14.0173X

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

Markings: Ex ia IIC T4 Ga, T4 (-50 °C ≤ T_a ≤ +70 °C)

For use with Rosemount SmartPower power module part number 753-9220-0001, or for use with Emerson SmartPower option 701PBKKF.

See the table at the end of this section for entity parameters.

Special Conditions for Safe Use (X):

- The surface resistivity of the antenna is greater than 1 GΩ. To avoid electrostatic charge build-up, it must not be rubbed or cleaned with solvents or a dry cloth.
- The Model 701PBKKF Power Module may be replaced in a hazardous area. The Power Modules have a surface resistivity greater than 1G? and must be properly installed I the wireless device enclosure. Care must be taken during transportation to and from the point of installation to prevent electrostatic charge build-up.
- The 705 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 a Zone 0 area.

IY IECEx Intrinsic Safety for Zone 2

Certificate: IECEx BAS 14.0173X

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

Markings: Ex ic IIC T4 Gc, T4 (-60 °C ≤ T_a ≤ +70 °C)

For use with Rosemount SmartPower power module part number 753-9220-0001, or for use with Emerson SmartPower option 701PBKKF.

See the table at the end of this section for entity parameters.

Special Conditions for Safe Use (X):

1. The surface resistivity of the antenna is greater than $1\text{ G}\Omega$. To avoid electrostatic charge build-up, it must not be rubbed or cleaned with solvents or a dry cloth.
2. The Model 701PBKKF Power Module may be replaced in a hazardous area. The Power Modules have a surface resistivity greater than $1\text{ G}\Omega$ and must be properly installed in the wireless device enclosure. Care must be taken during transportation to and from the point of installation to prevent electrostatic charge build-up.
3. The 705 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 a Zone 0 area.

Brazil**IM** INMETRO Intrinsic Safety

Certificate: UL-BR 17.0019X

Standards: ABNT NBR IEC 60079-0:2008 + Errata 1:2011, ABNT NBR IEC 60079-11:2009

Markings: Ex ia IIC T4 Ga, T4 ($-60\text{ }^{\circ}\text{C} \leq T_a \leq +70\text{ }^{\circ}\text{C}$)

See the table at the end of this section for entity parameters.

Special Condition for Safe Use (X):

1. See certificate for special conditions.

EAC - Belarus, Kazakhstan, Russia**IM** Technical Regulation Customs Union (EAC) Intrinsic Safety

Certificate: TC RU C-US.MIO62.B.03122

Markings: 0Ex ia IIC T4 Ga X, T4 ($-60\text{ }^{\circ}\text{C} \leq T_a \leq +70\text{ }^{\circ}\text{C}$)




See the table at the end of this section for entity parameters.

Special Condition for Safe Use (X):

1. See certificate for special conditions.

Turbine meter terminal output parameters	Turbine meter terminal input parameters
$V_{OC}/U_O = 2.5\text{ V}$	$V_{MAX}/U_i = 10\text{ V}$
$I_{SC}/I_O = 253\text{ }\mu\text{A}$	$I_{MAX}/I_i = 1\text{ mA}$
$P_{MAX}/P_O = 640\text{ }\mu\text{W}$	$P_{MAX}/P_i = 1\text{ mW}$
$C_a/C_O = 2.9\text{ }\mu\text{F}$	$C_i = 2.2\text{ nF}$
$L_a/L_O = 500\text{ mH}$	$L_i = 4.7\text{ mH}$

Figure 8. Rosemount 705 Declaration of Conformity

		<h1>EU Declaration of Conformity</h1>			
<p>No: RMD 1105 Rev. D</p> <hr/>					
<p>We,</p>					
<p>Rosemount, Inc. 8200 Market Boulevard Chanhasen, MN 55317-9685 USA</p>					
<p>declare under our sole responsibility that the product,</p>					
<p>Rosemount 705 Wireless Totalizer Transmitter</p>					
<p>manufactured by,</p>					
<p>Rosemount, Inc. 8200 Market Boulevard Chanhasen, MN 55317-9685 USA</p>					
<p>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.</p>					
<p>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.</p>					
			<p>Vice President of Global Quality</p>		
<p>(signature)</p>			<p>(function)</p>		
<p>Chris LaPoint</p>			<p>6-June-2017</p>		
<p>(name)</p>			<p>(date of issue)</p>		
<p>Page 1 of 3</p>					



EU Declaration of Conformity



No: RMD 1105 Rev. D

EMC Directive (2014/30/EU)

Harmonized Standards:
EN 61326-1: 2013

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

Harmonized Standards:
EN 300 328 V2.1.1
EN 301 489-1 V2.2.0
EN 301 489-17 V3.2.0
EN 61010-1: 2010
EN 62479: 2010

ATEX Directive (2014/34/EU)

Baseefa14ATEX0375X – Intrinsic Safety Certificate (Ex ia)

Equipment Group II, Category 1 G
Ex ia IIC T4 Ga

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

Baseefa15ATEX0059X – Intrinsic Safety Certificate (Ex ic)

Equipment Group II, Category 3 G
Ex ic IIC T4 Gc

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



EU Declaration of Conformity



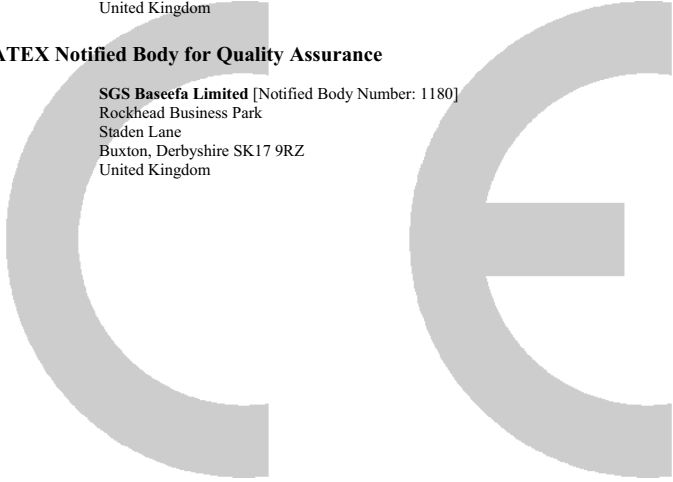
No: RMD 1105 Rev. D

ATEX Notified Body

SGS Baseefa Limited [Notified Body Number: 1180]
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Staden Lane
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United Kingdom

ATEX Notified Body for Quality Assurance

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United Kingdom



含有China RoHS 管控物质超过最大浓度限值的部件型号列表 Rosemount 705
List of Rosemount 705 Parts with China RoHS Concentration above MCVs

部件名称 Part Name	有害物质 / Hazardous Substances					
	铅 Lead (Pb)	汞 Mercury (Hg)	镉 Cadmium (Cd)	六价铬 Hexavalent Chromium (Cr +6)	多溴联苯 Polybrominated biphenyls (PBB)	多溴联苯醚 Polybrominated diphenyl ethers (PBDE)
电子组件 Electronics Assembly	X	O	O	O	O	O
壳体组件 Housing Assembly	X	O	O	X	O	O

本表格系依据SJ/T11364的规定而制作。

This table is proposed in accordance with the provision of SJ/T11364.

O: 意为该部件的所有均质材料中该有害物质的含量均低于GB/T 26572所规定的限量要求。

O: Indicate that said hazardous substance in all of the homogeneous materials for this part is below the limit requirement of GB/T 26572.

X: 意为在该部件所使用的所有均质材料里，至少有一类均质材料中该有害物质的含量高于GB/T 26572所规定的限量要求。

X: Indicate that said hazardous substance contained in at least one of the homogeneous materials used for this part is above the limit requirement of GB/T 26572.



Global Headquarters

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