

Rosemount™ 3308 Series Wireless Guided Wave Radar, 3308A Product Certifications



CE IEC WirelessHART


EMERSON™

⚠ WARNING**Explosions could result in death or serious injury.**

- Verify that the operating environment of the gauge is consistent with the appropriate hazardous locations certifications.

Failure to follow safe installation and servicing guidelines could result in death or serious injury.

- Make sure the transmitter is installed by qualified personnel and in accordance with applicable code of practice.

Electrical shock can result in death or serious injury.

- Probes covered with plastic and/or with plastic discs may generate an ignition-capable level of electrostatic charge under certain extreme conditions. Therefore, when the probe is used in a potentially explosive atmosphere, appropriate measures must be taken to prevent electrostatic discharge.

1.0 Product certifications

1.1 European Union directive information

The EU Declaration of Conformity for all applicable European directives for this product can be found on [page 9](#). The most current revision is available at Emerson.com/Rosemount.

1.2 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.

1.3 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 and this device must accept any interference, including any interference that may cause undesired operation of the device. This device must be installed to ensure a minimum antenna separation distance of 20 cm from all persons.

This radio transmitter has been approved by Industry Canada to operate with the antenna types listed below with the maximum permissible gain indicated. Antenna types not included in this list, having a gain greater than the maximum gain indicated for that type, are strictly prohibited for use with this device.

| Antenna model option | Antenna type | Max gain (dBi) |
|----------------------|---------------------------|----------------|
| WK1 | Integral Omni-directional | 2 |
| WN1 | Remote Omni-directional | 8 |

This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) This device may not cause interference, and (2) this device must accept any interference, including any interference that may cause undesired operation of the device.

⚠ CAUTION

Changes or modifications to the equipment not expressly approved by Emerson could void the user's authority to operate the equipment.

Cet appareil est conforme à la norme RSS 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.

⚠ CAUTION

Les changements ou les modifications apportés à l'équipement qui n'est pas expressément approuvé par Emerson pourraient annuler l'autorité de l'utilisateur à utiliser cet équipement.

1.4 Ordinary location certification for FM approvals

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

1.5 Hazardous locations certifications

U.S.A.

15 U.S.A Intrinsicly Safe

Certificate: FM17US0014X

Standards: FM Class 3600 – 2011, FM Class 3610 – 2015, FM Class 3810 – 2005, NEMA® 250 – 2003, ANSI/ISA 60079-0:2013, ANSI/UL 60079-11:2014, ANSI/ISA 60529:2004, ANSI/ISA 61010-1:2004

Markings: IS CL I, DIV 1, GPA, B, C, D:

IS CL I Zone 0, AEx ia IIC T4 Ga;

T4 Ta = -55 to +70 °C

Type 4X; IP66; IP67

WHEN INSTALLED PER ROSEMOUNT DRAWING 03308-1010

(See [Figure 1 on page 8](#))

Special Conditions of Certification:

1. The Model 3308 transmitter housing contains aluminum; protect the enclosure to avoid a potential risk of ignition due to impact or friction.
2. The surface resistivity of the polymeric antenna is greater than 1GΩ. To avoid electrostatic charge buildup, it shall not be rubbed or cleaned with solvents or a dry cloth.
3. For use only with the Emerson Process Management Model 701PBKKF SmartPower™ Option or the Computational Systems, Inc Model MHM-89004 battery module.
4. Only the Emerson Process Management 375 or 475 Field Communicator is approved for use with this transmitter.
5. The maximum permitted operating temperature of the Rosemount 3308A transmitter is 70 °C. To avoid the effects of process temperature and other thermal effects care shall be taken to ensure that the "Electronics Temperature" does not exceed 70 °C.

Canada

16 Canada Intrinsicly Safe

Certificate: FM17CA0007X

Standards: CSA Std. C22.2 No. 61010-1:2004, CSA Std. 22.2 No. 94-M91, CAN/CSA-C22.2 NO. 60079-0:15, CAN/CSA-C22.2 NO. 60079-11:14, C22.2 No. 60529:2016

Markings: INTRINSICALLY SAFE Ex ia
 CLASS I, GP A, B, C, D;
 CLASS I, Zone 0, Ex ia IIC T4 Ga;
 TEMP CODE T4 (-55 °C ≤ Ta ≤ +70 °C)
 Type 4X; IP66; IP67
 WHEN INSTALLED PER ROSEMOUNT DRAWING 03308-1010.
 (See [Figure 1 on page 8](#))

Special Conditions of Certification:


1. The Model 3308 transmitter housing contains aluminum; protect the enclosure to avoid a potential risk of ignition due to impact or friction.
2. The surface resistivity of the polymeric antenna is greater than 1GΩ. To avoid electrostatic charge buildup, it shall not be rubbed or cleaned with solvents or a dry cloth.
3. For use with the Emerson Process Management 701PBKKF SmartPower Option or the Computational Systems, Inc Model MHM-89004 battery module only.
4. Only the Emerson Process Management 375 or 475 Field Communicator is approved for use with this transmitter.
5. The maximum permitted operating temperature of the Rosemount 3308A transmitter is 70 °C. To avoid the effects of process temperature and other thermal effects care shall be taken to ensure that the “Electronics Temperature” does not exceed 70 °C.

Europe

11 ATEX Intrinsic Safety

Certificate: FM 12ATEX0072X

Standards: EN 60079-0:2012+A11:2013, EN 60079-11:2012; EN 60529:1991+A2:2013

Markings:  Category II 1 G, Ex ia IIC T4 Ga (-55 °C ≤ Ta ≤ +70 °C);

 1180

 2460

Special Conditions of Certification:

1. The Model 3308 transmitter housing contains aluminum; protect the enclosure to avoid a potential risk of ignition due to impact or friction.
2. The surface resistivity of the polymeric antenna is greater than 1GΩ. To avoid electrostatic charge buildup, it must not be rubbed or cleaned with solvents or a dry cloth.
3. For use only with the ATEX certified (Baseefa11ATEX0042X) Emerson Process Management Model 701PBKKF SmartPower Option or the ATEX certified (SIRA 15ATEX2332X) Computational Systems, Inc Model MHM-89004 battery Module.
4. Only an ATEX certified (BVS03ATEXE347, BVS09ATEXE023) Emerson Process Management 375 or 475 Field Communicator is approved for use with this transmitter.
5. The maximum permitted operating temperature of the Rosemount 3308A transmitter is 70 °C. To avoid the effects of process temperature and other thermal effects care shall be taken to ensure that the “Electronics Temperature” does not exceed 70 °C.

International

17 IECEx Intrinsic Safety

Certificate: IECEx FMG 12.0029X

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

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

Special Conditions of Certification:

1. The Model 3308 transmitter housing contains aluminum; protect the enclosure to

- avoid a potential risk of ignition due to impact or friction.
2. The surface resistivity of the polymeric antenna is greater than $1\text{ G}\Omega$. To avoid electrostatic charge buildup, it must not be rubbed or cleaned with solvents or a dry cloth.
 3. For use with only the an IECEx certified (IECEx FMG 12.0029X) Emerson Process Management Model 701PBKKF SmartPower Option or the IECEx certified (IECEx CSA 15.0045X) Computational Systems, Inc Model MHM-89004 battery pack.
 4. Only the Emerson Process Management 375 or 475 Field Communicator is approved for use with this transmitter.
 5. The maximum permitted operating temperature of the Rosemount 3308A transmitter is $70\text{ }^{\circ}\text{C}$. To avoid the effects of process temperature and other thermal effects care shall be taken to ensure that the “Electronics Temperature” does not exceed $70\text{ }^{\circ}\text{C}$.

Brazil

12 INMETRO Intrinsic Safety

Certificate: UL-BR 13.0463X

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

ABNT NBR IEC 60079-11:2009, ABNT NBR IEC 60079-26:2008

Markings: Ex ia IIC T4 Ga ($-55\text{ }^{\circ}\text{C} \leq T_{\text{amb}} \leq +70\text{ }^{\circ}\text{C}$)

Special Conditions of Certification:

1. The Model 3308 transmitter housing contains aluminium; protect the enclosure to avoid a potential risk of ignition due to impact or friction.
2. The surface resistivity of the polymeric antenna is greater than $1\text{ G}\Omega$. To avoid electrostatic charge buildup, it must not be rubbed or cleaned with solvents or a dry cloth.
3. For use with the Emerson Process Management 701PB SmartPower Option only.
4. Only the Emerson Process Management 375 or 475 Field Communicator is approved for use with this transmitter.
5. The maximum permitted operating temperature of the Rosemount 3308A transmitter is $70\text{ }^{\circ}\text{C}$. To avoid the effects of process temperature and other thermal effects care shall be taken to ensure that the “Electronics Temperature” does not exceed $70\text{ }^{\circ}\text{C}$.

China

13 NEPSI Intrinsic Safety

Certificate: GYJ13.1443X

Standards: GB 3836.1-2010, GB 3836.4-2010, GB 3836.20-2010

Markings: Ex ia IIC T4 Ga ($-55\text{ }^{\circ}\text{C} \sim +70\text{ }^{\circ}\text{C}$)

Special Conditions of Certification:

See certificate for details.

Japan

14 TIIS Intrinsic Safety

Certificate: TC20746

Markings: Ex ia IIC T4 $-20\text{ }^{\circ}\text{C} \sim +60\text{ }^{\circ}\text{C}$

Special Conditions of Certification:

See certificate for details.

EAC – Belarus, Kazakhstan, Russia

IM Technical Regulation Customs Union (EAC) Intrinsic Safety

Certificate: RU C-US.Gb05.B.00530

Markings: 0Ex ia IIC T4 Ga X (-55°C ≤ Ta ≤ +70 °C)

Special Conditions of Certification:

See certificate for details.

Taiwan

注意！

依據 低功率電波輻射性電機管理辦法

第十二條

經型式認證合格之低功率射頻電機，非經許可，公司、商號或使用者均不得擅自變更頻率、加大功率或變更原設計之特性及功能。

第十四條

低功率射頻電機之使用不得影響飛航安全及干擾合法通信；經發現有干擾現象時，應立即停用，並改善至無干擾時方得繼續使用。

前項合法通信，指依電信法規定作業之無線電通信。

低功率射頻電機須忍受合法通信或工業、科學及醫療用電波輻射性電機設備之干擾。

Combinations

KD ATEX and Canadian Intrinsic Safety

KE FM and Canadian Intrinsically Safe

KF ATEX and FM Intrinsic Safety

1.6 Other certifications

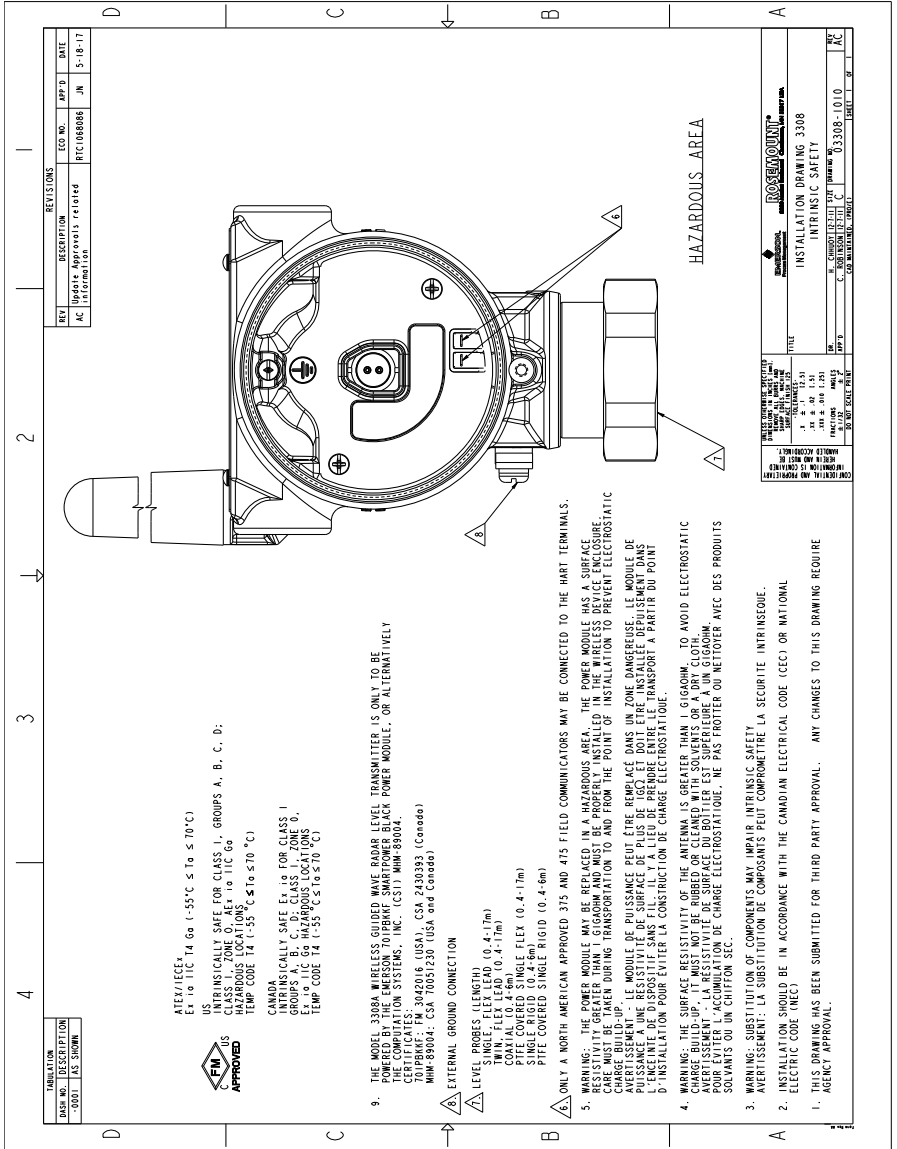
U1 Overfill protection

Certificate: Z-65.16-536

TÜV-tested and approved by DIBt for overfill protection according to the German WHG regulations




2.0 Approval drawings

Figure 1. Installation Drawing 3308 FM Intrinsic Safety



3.0 EU Declaration of Conformity

Figure 2. EU Declaration of Conformity

| | | |
|--|---|---|
|  EMERSON | EU Declaration of Conformity |  |
| No: RMD 1090 Rev. H | | |
| <p>We,</p> | | |
| <p>Rosemount, Inc. 8200 Market Boulevard Chanhassen, MN 55317-9685 USA</p> | | |
| <p>declare under our sole responsibility that the product,</p> | | |
| <p>Rosemount 3308A Wireless Guided Wave Radar Level Transmitter</p> | | |
| <p>manufactured by,</p> | | |
| <p>Rosemount, Inc. 8200 Market Boulevard Chanhassen, 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 1090 Rev. H

EMC Directive (2014/30/EU)

Harmonized Standards:
EN 61326-1: 2013
EN 61326-2-3: 2013

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

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

ATEX Directive (2014/34/EU)

FM12ATEX0072X – Intrinsic Safety Certificate
Equipment Group II, Category 1 G
Ex ia IIC T4 Ga
Harmonized Standards:
EN 60079-0: 2012
EN 60079-11: 2012



EU Declaration of Conformity



No: RMD 1090 Rev. H

ATEX Notified Body

FM Approvals Ltd. [Notified Body Number: 1725]
1 Windsor Dials
Windsor, Berkshire, SL4 1RS
United Kingdom

ATEX Notified Body for Quality Assurance

For Chanhassen, USA and Singapore

SGS Baseefa Limited [Notified Body Number: 1180]
Rockhead Business Park
Staden Lane
Buxton, Derbyshire
SK17 9RZ United Kingdom

For Goteborg, Sweden

DNV Nemko Presafe AS [Notified Body Number: 2460]
Veritasveien 1,
1363 HØVIK
Norway

含有China RoHS管控物质超过最大浓度限值的部件型号列表 Rosemount 3308A
List of Rosemount 3308A Parts with China RoHS Concentration above MCVs

| Part Name 部件名称 | Hazardous Substances / 有害物质 | | | | | |
|---------------------------------|-----------------------------|----------------------|----------------------|--|--|--|
| | Lead 铅 (Pb) | Mercury 汞 (Hg) | Cadmium 镉 (Cd) | Hexavalent Chromium 六价铬 (Cr +6) | Polybrominated biphenyls 多溴联苯 (PBB) | Polybrominated diphenyl ethers 多溴联苯醚 (PBDE) |
| 电子组件 Electronics Assembly | X | O | O | O | O | O |
| 传感器组件 Sensor 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 GB/T 26572.

X: 意为在该部件所使用的均质材料里，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.



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