Product Certifications
00825-0200-4308, Rev CH
October 2023

Rosemount™ 3308 Series Wireless Guided Wave Radar, 3308A

Product Certifications

CE IEC WirelessHART

ROSEMOUNT™

EMERSON

1 Product Certifications

Rev 1.19

1.1 European directive information

A copy of the EU Declaration of Conformity can be found in the end of the document. The most recent revision of the EU Declaration of Conformity can be found at Emerson.com/Rosemount.

1.2 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).

1.3 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.

1.4 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)
WK	Integral Omni-directional	2
WM	Integral Omni-directional	4.5
WN	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 interferences 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.

1.5 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.

1.6 USA

1.6.1 I5 US Intrinsic Safety (IS)

Certificate	FM17US0014X
Standards	FM Class 3600 - 2011, FM Class 3610 - 2015, FM Class 3810 - 2005, ANSI/ISA 60079-0:2013, ANSI/UL 60079-11:2014, ANSI/ISA 61010-1:2004, ANSI/NEMA® 250 - 2003, ANSI/IEC 60529:2004
Markings	IS CL I, DIV 1, GP A, B, C, D T4; (-55°C ≤ Ta ≤ +70°C) Class 1, Zone 0 AEx ia IIC T4 Ga; (-55°C ≤ Ta ≤ +70°C) when installed per Rosemount drawing 03308-1010;

Type 4X; IP66/67

Special Conditions for Safe Use (X):

1. The Rosemount 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 build-up, it shall not be rubbed or cleaned with solvents or a dry cloth.
3. For use with only the Emerson 701PBKKF SmartPower™ Option, the Computational Systems, Inc MHM-89004 battery module, or the Perpetuum™ Model IPM71008 Intelligent Power Module.
4. Only the Emerson 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.

1.7 Canada

1.7.1 I6 Canada Intrinsically Safe

Certificate	FM17CA0007X
Standards	C22.2 No. 94-M91:1991 (R2011), CAN/CSA C22.2 No. 60079-0:2015, CAN/CSA 22.2 60079-11:2014, C22.2 No 61010-1:2004, C22.2 No. 60529:2016
Markings	Intrinsically Safe Class I, Division 1, Groups A, B, C and D T4; (-55°C ≤ Ta ≤ +70°C) Ex ia IIC Ga T4; (-55°C ≤ Ta ≤ +70°C) when installed per Rosemount drawing 03308-1010; Type 4X; IP66/67

Special Conditions for Safe Use (X):

1. The Rosemount 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 build-up, it shall not be rubbed or cleaned with solvents or a dry cloth.
3. For use with only the Emerson 701PBKKF SmartPower™ Option, the Computational Systems, Inc MHM-89004 battery module, or the Perpetuum Model IPM71008 Intelligent Power Module.
4. Only the Emerson 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.

1.8 Europe

1.8.1 I1 ATEX Intrinsic Safety

Certificate	FM 12ATEX0072X
Standards	EN 60079-0: 2012 + A11:2013, EN 60079-11: 2012, EN 60529:1991 + A1:2000 + A2:2013
Markings	⟨Ex⟩ II 1 G Ex ia IIC T4 Ga, (-55°C ≤ Ta ≤ +70°C)

Special Conditions for Safe Use (X):

1. The Rosemount 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 build-up, it shall not be rubbed or cleaned with solvents or a dry cloth.
3. For use with only the ATEX certified (Baseefa11ATEX0042X) Emerson 701PBKKF SmartPower Option or the ATEX certified (Sira 15ATEX2332X) Computational Systems, Inc MHM-89004 battery module.
4. Only the ATEX certified (BVS03ATEXE347, BVS09ATEXE023) Emerson 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.

1.9 International

1.9.1 I7 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 for Safe Use (X):

1. The Rosemount 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 build-up, it shall not be rubbed or cleaned with solvents or a dry cloth.
3. For use with only the IECEx certified (IECEx FMG 12.0029X) Emerson 701PBKKF SmartPower Option or the IECEx certified (IECEx CSA 15.0045X) Computational Systems, Inc MHM-89004 battery pack.
4. Only the Emerson 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.

1.10 Brazil

1.10.1 I2 Brazil Intrinsic Safety

Certificate	UL-BR 13.0463X
Standards	ABNT NBR IEC 60079-0:2013, ABNT NBR IEC 60079-11:2013
Markings	Ex ia IIC T4 Ga (-55°C ≤ Ta ≤ +70°C), IP66

Special Conditions for Safe Use (X):

1. See certificate for special conditions.

1.11 China

1.11.1 I3 China Intrinsic Safety

Certificate	GYJ23.1238X
Standards	GB/T 3836.1-2021, GB/T 3836.4-2021
Markings	Ex ia IIC T4 Ga (-55°C ≤ Ta ≤ +70°C)

Special Conditions for Safe Use (X):

See certificate for special conditions.

1.12 Japan

1.12.1 I4 Japan Intrinsic Safety

Certificate	CML 18JPN2241X
Standards	IEC 60079-0:2013, IEC 60079-11:2013
Markings	Ex ia IIC T4 Ga (-55°C ≤ Ta ≤ +70°C), IP66/67

Special Conditions for Safe Use (X):

See certificate for special conditions.

1.13 Technical Regulations Customs Union (EAC)

TR CU 032/2013 “On safety of equipment and vessels under pressure”

Certificate	RU C-US.АД07.В.00770/19

1.13.1 IM EAC Intrinsic Safety

Certificate	ЕАЭС KZ 7500525.01.01.00848
Markings	0Ex ia IIC T4 Ga X, -55°C to +70°C, IP66, IP67

Special Conditions for Safe Use (X):

See certificate for special conditions.

1.14 Republic of Korea

1.14.1 IP Korean Intrinsic Safety

Certificate	14-KB4BO-0296X
Markings	Ex ia IIC T4 Ga X, -55°C to +70°C

Special Conditions for Safe Use (X):

See certificate for special conditions.

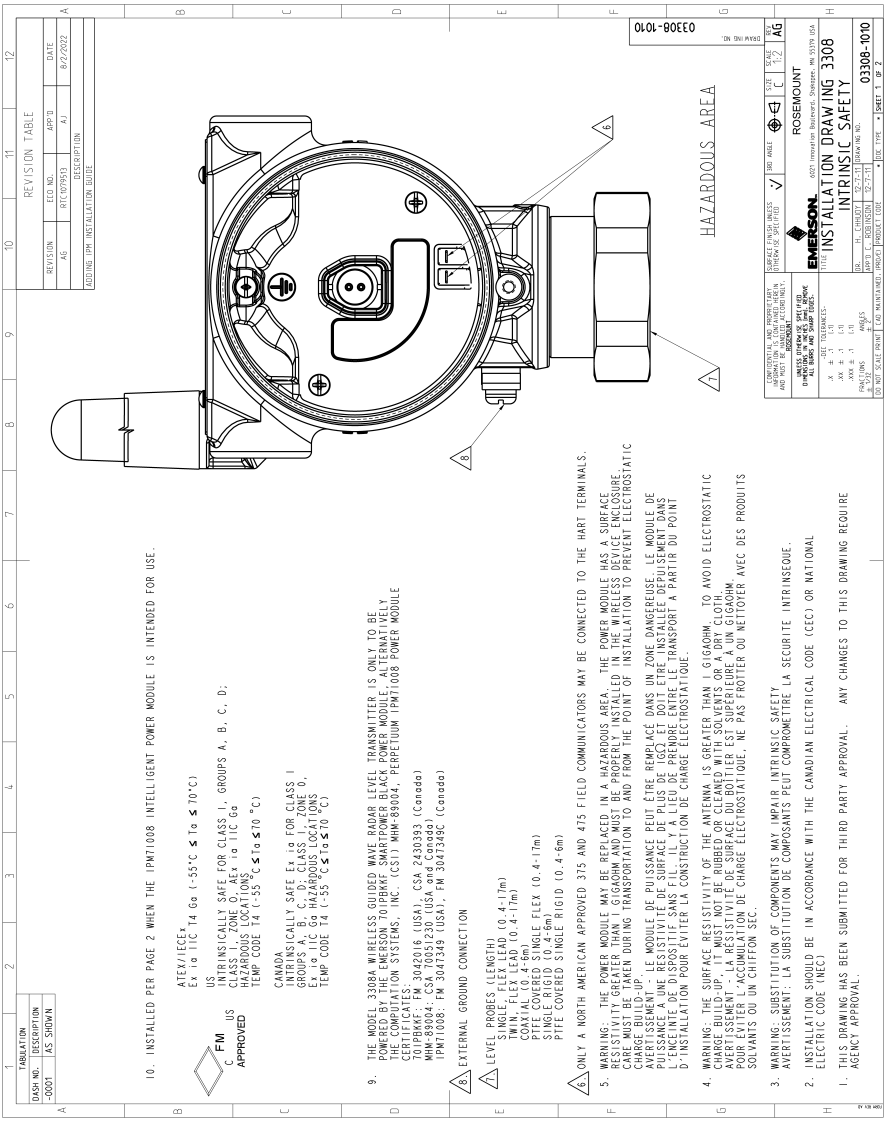
1.15 Additional certifications

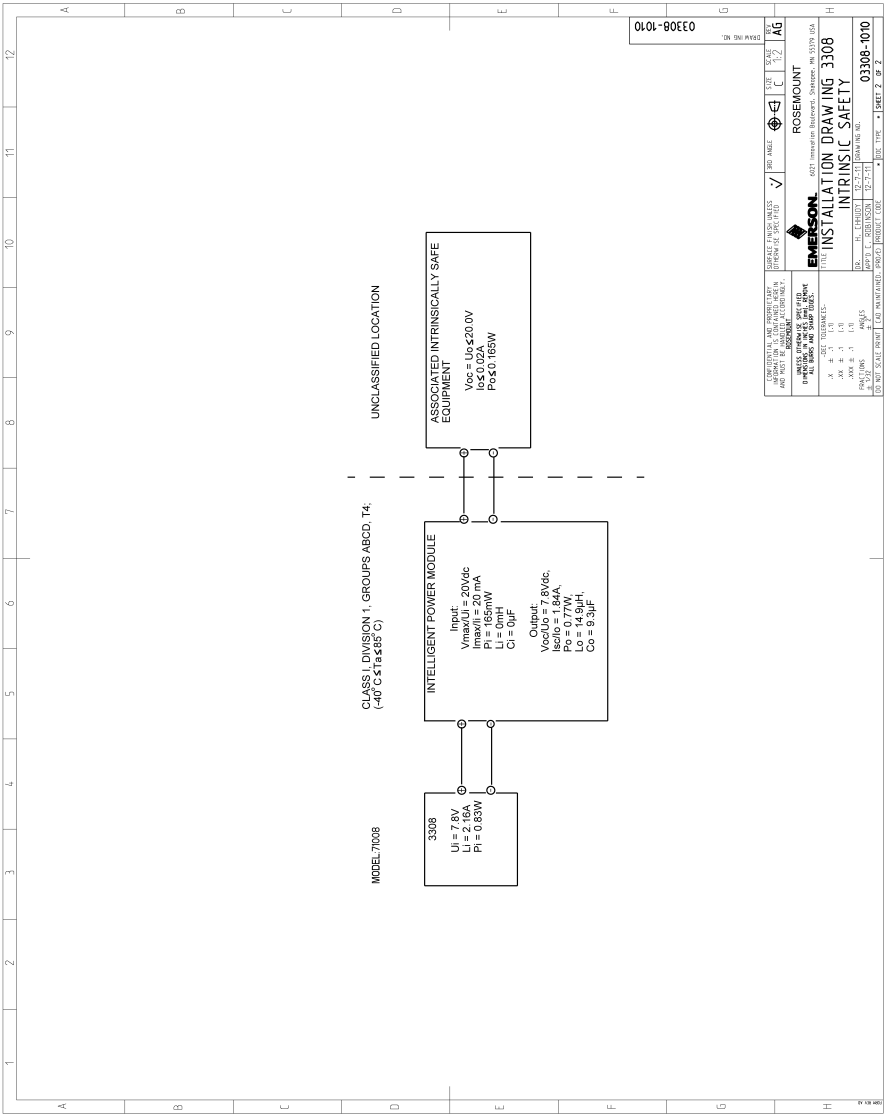
1.15.1 U1 Overfill prevention

Certificate	Z-65.16-536
Application	TÜV-tested and approved by DIBt for overfill prevention according to the German WHG regulations.

1.16 Approval drawings

Figure 1-1: Installation Drawing 3308 FM Intrinsic Safety




03308-1010
ROSEMOUNT
EMERSON
6021 Innovation Boulevard, Shakopee, MN 55379 USA
INSTALLATION DRAWING 3308
INTRINSIC SAFETY
03308-1010
UNCLASSIFIED LOCATION
CLASS I, DIVISION 1, GROUPS ABCD, T4;
(-40°C≤Ta≤85°C)
MODEL 710DB
3308
Ui = 7.8V
Ii = 2.16A
Pi = 0.83W
INTELLIGENT POWER MODULE
Input:
Vmax/Ui = 20Vdc
Imax/Ii = 20 mA
Pi = 165mW
Li = 0mH
Ci = 0µF
Output:
Voc/Uo = 7.8Vdc,
Isc/Io = 7.84A,
Po = 7.07W
Lo = 14.9µH
Co = 9.3µF
ASSOCIATED INTRINSICALLY SAFE EQUIPMENT
Voc = Uo≤20.0V
Io≤0.024
Po≤0.165W

1.17 EU Declaration of Conformity

Figure 1-2: EU Declaration of Conformity

EMERSON

EU Declaration of Conformity

No: RMD 1090 Rev. K

CE

We,

Rosemount, Inc.
6021 Innovation Boulevard
Shakopee, MN 55379-4676
USA

declare under our sole responsibility that the product,

Rosemount™ Model 3308A Wireless Guided Wave Radar Level Transmitter

manufactured by,

Rosemount, Inc.
6021 Innovation Boulevard
Shakopee, MN 55379-4676
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)	7-Aug-2021.; Boulder, CO USA (date of issue & place)

Page 1 of 2

EMERSON

EU Declaration of Conformity

No: RMD 1090 Rev. K

CE

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: 2019
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+A11:2013
EN 60079-11:2012

ATEX Notified Body

FM Approvals Europe Ltd. [Notified Body Number: 2809]
One Georges Quay Plaza
Dublin
D02 E440
Ireland

ATEX Notified Body for Quality Assurance

For Chanhassen, USA and Singapore

SGS FIMKO OY [Notified Body Number: 0598]
Takomotie 8
00380 HELSINKI
Finland

For Goteborg, Sweden

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

Page 2 of 2

1.18 China RoHS

含有China RoHS管控物质超过最大浓度限值的部件型号列表 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 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.

Product Certifications
00825-0200-4308, Rev. CH
October 2023

For more information: **Emerson.com/global**

ROSEMOUNT™

EMERSON™