

Rosemount™ 2230 Graphical Field Display



1 Product certifications

Rev 5.17

1.1 European Directive Information

A copy of the EU Declaration of Conformity can be found at the end of this document.

The most recent revision of the EU Declaration of Conformity can be found at [Emerson.com/Rosemount](https://www.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 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.

1.4 North America

1.4.1 I5 USA Intrinsic Safety

Certificate	FM17US0035X
Standards	FM Class 3600 – 2018 FM Class 3610 – 2018 FM Class 3810 – 2005 ANSI/NEMA 250 – 2008 ANSI/IEC 60529 – 2004 ANSI/ISA 61010-1:2004 ANSI/ISA 60079-0 – 2019 ANSI/ISA 60079-11 – 2014
Markings	IS/I,II,III/1/ABCDEFG/T4 Ta = -50 °C to +70 °C Control Dwg D9240040-949 I/O/AEx ia IIC T4 Ga Ta = -50 °C to +70 °C Control Dwg D9240040-949 Type 4X; IP66, IP67

	Ui	Ii	Pi	Ci	Li
Entity parameters	30 V	300 mA	1.3 W	2.1 nF	1.1 µH
FISCO parameters	17.5V	380 mA	5.32 W	N/A	N/A

Specific Conditions for Safe Use (X):

1. The non-metallic parts incorporated in the enclosure of this equipment may generate an ignition-capable level of electrostatic charge. Therefore particularly when it is used for applications that specifically require Division 1 and Group II, Zone 0 located equipment, the equipment shall not be installed in a location where the external conditions are conducive to the build-up of electrostatic charge on such surfaces. Additionally, the equipment shall only be cleaned with a damp cloth.
2. The enclosure contains aluminum and is considered to present a potential risk of ignition by impact or friction. Care must be taken during installation and use to prevent impact or friction.
3. The Rosemount 2230 Graphical Field Display will not pass the 500Vrms dielectric strength test and this must be taken into account during installation.

4. To maintain ingress protection ratings IP66 and IP67, PTFE tape or pipe dope is required for cable entries and blanking plugs.

1.4.2 I6 Canada Intrinsic Safety

Certificate	FM17CA0019X
Standards	CAN/CSA C22.2 No. 1010.1:2004 CAN/CSA C22.2 No. 25-1966 (R2014) CAN/CSA C22.2 No.94-M91:1991 (R2011) CAN/CSA-C22.2 NO. 60529-2005 (R2015) CAN/CSA C22.2 No. E60079-0:2019 CAN/CSAC22.2 No. E60079-11:2014
Markings	IS/I,II,III/1/ABCDEFGH/T4 Ta = -50 °C to +70 °C Control Drawing D9240040-949 Ex ia IIC T4 Ga Ta = -50 °C to +70 °C Control Drawing D9240040-949 Type 4X; IP66, IP67


	Ui	Ii	Pi	Ci	Li
Entity parameters	30 V	300 mA	1.3 W	2.1 nF	1.1 µH
FISCO parameters	17.5V	380 mA	5.32 W	N/A	N/A

Specific Conditions for Safe Use (X):

1. The non-metallic parts incorporated in the enclosure of this equipment may generate an ignition-capable level of electrostatic charge. Therefore particularly when it is used for applications that specifically require Division 1 and Group II, Zone 0 located equipment, the equipment shall not be installed in a location where the external conditions are conducive to the build-up of electrostatic charge on such surfaces. Additionally, the equipment shall only be cleaned with a damp cloth.
2. The enclosure contains aluminum and is considered to present a potential risk of ignition by impact or friction. Care must be taken during installation and use to prevent impact or friction.
3. The Rosemount 2230 Graphical Field Display will not pass the 500Vrms dielectric strength test and this must be taken into account during installation.
4. To maintain ingress protection ratings IP66 and IP67, PTFE tape or pipe dope is required for cable entries and blanking plugs.

1.5 Europe

1.5.1 I1 ATEX Intrinsic Safety

Certificate	FM10ATEX0046X
Standards	EN IEC 60079-0:2018, EN 60079-11:2012, EN 60529:2013
Markings	 II 1 G Ex ia IIC T4 Ga Ta = -50 °C to +70 °C; IP66, IP67

	Ui	Ii	Pi	Ci	Li
Entity parameters	30 V	300 mA	1.3 W	2.1 nF	1.1 µH
FISCO parameters	17.5V	380 mA	5.32 W	N/A	N/A

Specific Conditions for Safe Use (X):

1. The non-metallic parts incorporated in the enclosure of this equipment may generate an ignition-capable level of electrostatic charge. Therefore particularly when it is used for applications that specifically require Division 1 and Group II, Zone 0 located equipment, the equipment shall not be installed in a location where the external conditions are conducive to the build-up of electrostatic charge on such surfaces. Additionally, the equipment shall only be cleaned with a damp cloth.
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3. The Rosemount 2230 Graphical Field Display will not pass the 500Vrms dielectric strength test and this must be taken into account during installation.
4. To maintain ingress protection ratings IP66 and IP67, PTFE tape or pipe dope is required for cable entries and blanking plugs.

1.6 International

1.6.1 I7 IECEX Intrinsic Safety

Certificate	IECEX FMG 10.0021X
Standards	IEC 60079-0:2017, IEC 60079-11:2011
Markings	Ex ia IIC T4 Ga (-50 °C ≤ Ta ≤ +70 °C); IP66/IP67

	Ui	Ii	Pi	Ci	Li
Entity parameters	30 V	300 mA	1.3 W	2.1 nF	1.1 μH
FISCO parameters	17.5V	380 mA	5.32 W	N/A	N/A

Specific Conditions for Safe Use (X):

1. The non-metallic parts incorporated in the enclosure of this equipment may generate an ignition-capable level of electrostatic charge. Therefore particularly when it is used for applications that specifically require Division 1 and Group II, Zone 0 located equipment, the equipment shall not be installed in a location where the external conditions are conducive to the build-up of electrostatic charge on such surfaces. Additionally, the equipment shall only be cleaned with a damp cloth.
2. The enclosure contains aluminum and is considered to present a potential risk of ignition by impact or friction. Care must be taken during installation and use to prevent impact or friction.
3. The Rosemount 2230 Graphical Field Display will not pass the 500Vrms dielectric strength test and this must be taken into account during installation.
4. To maintain ingress protection ratings IP66 and IP67, PTFE tape or pipe dope is required for cable entries and blanking plugs.

1.7 Brazil

1.7.1 I2 INMETRO Intrinsic Safety

Certificate	UL-BR 17.0949X
Standards	ABNT NBR IEC 60079-0:2020, ABNT NBR IEC 60079-11:2013
Markings	Ex ia IIC T4 Ga (-50 °C ≤ Tamb ≤ + 70 °C) Entity/FISCO IP66/IP67

	Ui	Ii	Pi	Ci	Li
Entity parameters	30 V	300 mA	1.3 W	2.1 nF	1.1 μH
FISCO parameters	17.5V	380 mA	5.32 W	N/A	N/A

Specific Conditions for Safe Use (X):

1. See certificate for special condition.

1.8 China

1.8.1 I3 NEPSI Intrinsic Safety

Certificate	GYJ 20.1391X (CCC)
Standards	GB/T 3836.1-2021; GB/T 3836.4-2021
Markings	Ex ia IIC T4 Ga (-50 °C ≤ Tamb ≤ + 70 °C)

	Ui	Ii	Pi	Ci	Li
Entity parameters	30 V	300 mA	1.3 W	2.1 nF	1.1 μH
FISCO parameters	17.5V	380 mA	5.32 W	N/A	N/A

Specific Conditions for Safe Use (X):

1. See certificate for special condition.

1.9 Technical Regulations Customs Union (EAC)

1.9.1 IM EAC Intrinsic Safety

Certificate	EAЭC KZ 7500525.01.01.00614
Markings	0Ex ia IIC T4 Ga X Ta = -50 °C to +70 °C IP66, IP67

	Ui	Ii	Pi	Ci	Li
Entity parameters	30 V	300 mA	1.3 W	2.1 nF	1.1 μH
FISCO parameters	17.5V	380 mA	5.32 W	N/A	N/A

1.10 Japan

1.10.1 I4 Japan Intrinsic Safety

Certificate CML 17JPN2203X

Standards JNIOSH-TR-46-1:2020, JNIOSH-TR-46-6:2015

Markings Ex ia IIC T4 Ga (-50°C ≤ Ta ≤ +70°C)

	Ui	Ii	Pi	Ci	Li
Entity parameters	30 V	300 mA	1.3 W	2.1 nF	1.1 μH
FISCO parameters	17.5V	380 mA	5.32 W	N/A	N/A

Specific Conditions of Use (X):

See certificate

1.11 Republic of Korea

1.11.1 IP Korea Intrinsic Safety

Certificate KTL 11-KB4BO-0073X

Markings Ex ia IIC T4 (-50 °C ≤ Ta ≤ +70 °C)

	Ui	Ii	Pi	Ci	Li
Entity parameters	30 V	300 mA	1.3 W	2.1 nF	1.1 μH
FISCO parameters	17.5V	380 mA	5.32 W	N/A	N/A

1.12 India

1.12.1 IW India Intrinsic Safety

Certificate P575991/1

Markings Ex ia IIC T4 Ga (-50 °C ≤ Ta ≤ +70 °C)

	Ui	Ii	Pi	Ci	Li
Entity parameters	30 V	300 mA	1.3 W	2.1 nF	1.1 μH
FISCO parameters	17.5V	380 mA	5.32 W	N/A	N/A

1.13 United Arab Emirates

1.13.1 Intrinsic Safety

Certificate 23-11-22694/Q23-11-048838/NB0002


Markings same as IECEx (I7)

Specific Conditions for Safe Use (X):


Same as IECEx (I7)

1.14 Declaration of Conformity

Figure 1-1: Rosemount 2230 EU Declaration of Conformity



Declaration of Conformity



Rev. #3

We,

Rosemount Tank Radar AB
Layoutvägen 1
S-435 33 MÖLNLYCKE
Sweden

declare under our sole responsibility that the product,


Rosemount™ 2230 Graphical Field Display

manufactured by,

Rosemount Tank Radar AB
Layoutvägen 1
S-435 33 MÖLNLYCKE
Sweden

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.

 <hr style="border: 0.5px solid black;"/> <p style="font-size: x-small;">(signature)</p>	<p style="font-weight: bold;">Sr. Manager Product Approvals</p> <hr style="border: 0.5px solid black;"/> <p style="font-size: x-small;">(function)</p>
<p style="font-weight: bold;">Dajana Prastalo</p> <hr style="border: 0.5px solid black;"/> <p style="font-size: x-small;">(name)</p>	<p style="font-weight: bold;">27-Sep-24; Mölnlycke</p> <hr style="border: 0.5px solid black;"/> <p style="font-size: x-small;">(date of issue & place)</p>

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Declaration of Conformity



EMC Directive (2014/30/EU)

Harmonized Standards: EN 61326-1:2013

ATEX Directive (2014/34/EU)

FM10ATEX0046X

Intrinsic Safety (Foundation ® Fieldbus, FISCO):

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

Harmonized Standards:

EN IEC 60079-0:2018

EN 60079-11:2012

Other Standards Used: EN 60529:1991/A1:2000/A2:2013

RoHS Directive (2011/65/EU) Amended 2015/863

Harmonized Standards: EN IEC 63000:2018



Declaration of Conformity

ATEX Directive Notified Body

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

ATEX Notified body for Quality Assurance

DNV Product Assurance AS [Notified Body Number: 2460]
Veritasveien 3
1363 Hovik
Norway



The most recent revision of the EU Declaration of Conformity for the Rosemount 2230 can be found at [Emerson.com/Rosemount](https://www.emerson.com/Rosemount).



Product Certifications
00880-0100-2230, Rev. AC
November 2024

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

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