

Rosemount™ 2410 Tank Hub



1 Product certifications

Rev 3.19

1.1 European Directive Information

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 Environmental conditions

Table 1-1: Environmental conditions (Ordinary Location and Low Voltage Directive (LVD))

Type	Description
Location	Indoor and outdoor use, wet
Maximum altitude	6562 ft. (2000 m)
Ambient temperature	-58 to 158°F (-50 to 70°C)
Electrical supply	24-48 Vdc, 48-240 Vac, 50/60 Hz, 20 W
Mains supply voltage fluctuations	Safe at ±10%
Over voltage category	II
Pollution degree	2

1.4 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.

1.5 North America

1.5.1 E5 USA Explosion-proof

Certificate	FM16US0123X
Standards	FM Class 3600:2018, FM Class 3610:2018, FM Class 3615:2018, FM Class 3810:2005, NEMA 250-2003, ANSI/IEC 60529:2004, ANSI/UL 61010-1:2004 ANSI/UL 60079-0:2019, ANSI/UL 60079-1:2015, ANSI/UL 60079-11:2014, ANSI/UL 60079-7:2017.
Markings FISCO	For b = Tank Bus (Fieldbus - Power and Communication): F and when d = Secondary Communication Bus (Non-IS): R, E, 5, K, L, V, H, G, A, U, T, B, 6, 7, 0, or F: FISCO POWER SUPPLY XP CL 1, DIV 1 GPS C, D & Associated Apparatus providing IS circuit to CL I, DIV 1, GPS C & D; DIP CL II/III, DIV. 1, GP E, F & G; CL I, ZONE 1 AEx db eb [ib] IIB Gb Amb. Temp. Limits -50 °C to +70 °C Temp. Class T4 SEE CONTROL DRAWING D9240040-901 ENCL. TYPE 4X, IP66, IP67.
Markings FISCO HART active	When b = Tank Bus (Fieldbus - Power and Communication): F and when d = Secondary Communication Bus (HART [®] /4-20mA Active IS Input/Output): W, C or 8: FISCO POWER SUPPLY XP CL 1, DIV 1 GPS C, D & Associated Apparatus providing IS circuit to CL I, DIV 1, GPS C & D; DIP CL II/III, DIV. 1, GP E, F & G; CL I, ZONE 1 AEx db eb [ib] IIB Gb ENTITY IS I/O ACTIVE: XP CL 1, DIV 1 GPS C, D & Associated Apparatus providing IS circuit to CL 1, DIV 1, GPS C & D ACTIVE: CL I, ZONE 0 AEx db eb [ia IIC Ga] IIB Gb Amb. Temp. Limits -50 °C to +70 °C Temp. Class T4 SEE CONTROL DRAWING D9240040-901 Type 4X; IP66/67.
Markings FISCO HART passive	When b = Tank Bus (Fieldbus - Power and Communication): F and when d = Secondary Communication Bus (HART [®] /4-20mA Passive IS

Input/Output): D or 9. FISCO POWER SUPPLY XP CL 1, DIV 1 GPS C, D & Associated Apparatus providing IS circuit to CL I, DIV 1, GPS C & D; DIP CL II/III, DIV. 1, GP E, F & G; CL I, ZONE 1 AEx db eb [ib] IIB Gb ENTITY IS I/O PASSIVE: CL I, ZONE 1 AEx db eb ib IIB Gb Amb. Temp. Limits -50 °C to +70 °C Temp. Class T4 SEE CONTROL DRAWING D9240040-901 Type 4X; IP66/67.

Markings Entity When b = Tank Bus (Fieldbus - Power and Communication): E and when d = Secondary Communication Bus (Non-IS): R, E, 5, K, L, V, H, G, A, U, T, B, 6, 7, 0, or F: ENTITY IS POWER SUPPLY XP CL I, DIV 1 GPS C, D & Associated Apparatus providing IS circuit to CL I, DIV 1, GPS C & D; DIP CL II/III, DIV. 1, GP E, F & G; CL I, ZONE 1 AEx db eb [ib] IIB Gb ENTITY Uo: 15.0 V, Io: 200 mA, Po: 3.0 W Co: 1.9 µF, Lo: 143 µH Amb. Temp. Limits -50 °C to +70 °C Temp. Class T4 SEE CONTROL DRAWING D7000002-611 Type 4X; IP66/67.

Markings Entity HART active When b = Tank Bus (Fieldbus - Power and Communication): E and when d = Secondary Communication Bus (HART®/4-20mA Active IS Input/Output): W, C or 8. ENTITY IS POWER SUPPLY XP CL I, DIV 1 GPS C, D & Associated Apparatus providing IS circuit to CL I, DIV 1, GPS C & D; DIP CL II/III, DIV. 1, GP E, F & G; CL I, ZONE 1 AEx db eb [ib] IIB Gb ENTITY IS I/O ACTIVE: XP CL I, DIV 1 GPS C, D & Associated Apparatus providing IS circuit to CL I, DIV 1, GPS C & D ACTIVE: CL I, ZONE 0 AEx db eb [ja IIC Ga] IIB Gb Amb. Temp. Limits -50 °C to +70 °C Temp. Class T4 SEE CONTROL DRAWING D7000002-611 Type 4X; IP66/67.

Markings Entity HART passive When b = Tank Bus (Fieldbus - Power and Communication): E and when d = Secondary Communication Bus (HART®/4-20mA Passive IS Input/Output): D or 9: ENTITY IS POWER SUPPLY XP CL I, DIV 1 GPS C, D & Associated Apparatus providing IS circuit to CL I, DIV 1, GPS C & D; DIP CL II/III, DIV. 1, GP E, F & G; CL I, ZONE 1 AEx db eb [ib] IIB Gb ENTITY IS I/O PASSIVE: CL I, ZONE 1 AEx db eb ib IIB Gb Amb. Temp. Limits -50 °C to +70 °C Temp. Class T4 SEE CONTROL DRAWING D7000002-611 Type 4X; IP66/67.

Specific Conditions of Use (X):

1. The flamepaths of the equipment are not intended to be repaired. Consult the manufacturer if repair of the flamepath joints is necessary.

Ex marking	Comm. Bus	Uo V	Io mA	Po W	Co µF	Lo mH	Grou P
Ex db eb [ib] IIB T4 Gb	FISCO	15	354	5.32	-	-	IIB
Ex db eb [ia IIC Ga] IIB T4 Gb	HART/4-20mA Active	23.1	95.3	0.55	0.14	3.9	IIC
					1.0	15	IIB
					3.67	33	IIA
Ex db eb [ib] IIB T4 Gb	Fieldbus	15	200	3	1.99	143 µH	IIB

Ex marking	Comm. Bus	Ui V	Ii mA	Pi W	Ci µF	Li mH	Grou P
Ex db eb ib IIB T4 Gb	HART/4-20mA Passive	30	300	1	0	0	IIB

1.5.2 E6 Canada Explosion-proof

Certificate	FM16CA0068X
Standards	<p>CSA C22.2 No. 0.4:2017</p> <p>CSA C22.2 No. 0.5:2016</p> <p>CSA C22.2 No. 30:2020</p> <p>CSA C22.2 No. 94-M91:1991 (Reaffirmed 2011)</p> <p>CSA C22.2 No. 1010.1:2004 (Reaffirmed 2009)</p> <p>CAN/CSA 60079-0:2019</p> <p>CAN/CSA 60079-1:2016</p> <p>CSA C22.2 60079-7:2016</p> <p>CAN/CSA 60079-11:2014</p> <p>CSA C22.2 No. 60529:2016</p>
Markings FISCO	<p>For b = Tank Bus (Fieldbus - Power and Communication): F and when d = Secondary Communication Bus (Non-IS): R, E, 5, K, L, V, H, G, A, U, T, B, 6, 7, 0, or F: FISCO POWER SUPPLY XP CL 1, DIV 1 GPS C, D & Associated Apparatus providing IS circuit to CL I, DIV 1, GPS C & D; DIP CL II/III, DIV. 1, GP E, F & G; CL I, ZONE 1 Ex db eb [ib] IIB Gb Amb. Temp. Limits -50 °C to +70 °C Temp. Class T4 SEE CONTROL DRAWING D9240040-901 Type 4X; IP66/67</p>
Markings FISCO HART active	<p>When b = Tank Bus (Fieldbus - Power and Communication): F and when d = Secondary Communication Bus (HART[®]/4-20mA Active IS Input/Output): W, C or 8: FISCO POWER SUPPLY XP CL 1, DIV 1 GPS C, D & Associated Apparatus providing IS circuit to CL I, DIV 1, GPS C & D; DIP CL II/III, DIV. 1, GP E, F & G; CL I, ZONE 1 Ex db eb [ib] IIB Gb ENTITY IS I/O ACTIVE: XP CL 1, DIV 1 GPS C, D & Associated Apparatus providing IS circuit to CL 1, DIV 1, GPS C & D ACTIVE: CL I, ZONE 0 Ex db eb [ia IIC] IIB Gb Amb. Temp. Limits -50 °C to +70 °C Temp. When b = Tank Bus (Fieldbus - Power and Communication): F and when d = Secondary Communication Bus (HART[®]/4-20mA Passive IS Input/Output): D or 9. Class T4 SEE CONTROL DRAWING D9240040-901 Type 4X; IP66/67</p>
Markings FISCO HART passive	<p>When b = Tank Bus (Fieldbus - Power and Communication): F and when d = Secondary</p>

Communication Bus (HART[®]/4-20mA Passive IS Input/Output): D or 9: FISCO POWER SUPPLY XP CL 1, DIV 1 GPS C, D & Associated Apparatus providing IS circuit to CL I, DIV 1, GPS C & D; DIP CL II/III, DIV. 1, GP E, F & G; CL I, ZONE 1 Ex db eb [ib] IIB Gb ENTITY IS I/O PASSIVE: CL I, ZONE 1 Ex db eb ib IIB Gb Amb. Temp. Limits -50 °C to +70 °C Temp. Class T4 SEE CONTROL DRAWING D9240040-901 Type 4X; IP66/67

Markings Entity When b = Tank Bus (Fieldbus - Power and Communication): E and when d = Secondary Communication Bus (Non-IS): R, E, 5, K, L, V, H, G, A, U, T, B, 6, 7, 0, or F: ENTITY IS POWER SUPPLY XP CL I, DIV 1 GPS C, D & Associated Apparatus providing IS circuit to CL I, DIV 1, GPS C & D; DIP CL II/III, DIV. 1, GP E, F & G; CL I, ZONE 1 Ex db eb [ib] IIB Gb Amb. Temp. Limits -50 °C to +70 °C Temp. Class T4 SEE CONTROL DRAWING D7000002-611 Type 4X; IP66/67

Markings Entity HART active When b = Tank Bus (Fieldbus - Power and Communication): E and when d = Secondary Communication Bus (HART[®]/4-20mA Active IS Input/Output): W, C or 8: ENTITY IS POWER SUPPLY XP CL I, DIV 1 GPS C, D & Associated Apparatus providing IS circuit to CL I, DIV 1, GPS C & D; DIP CL II/III, DIV. 1, GP E, F & G; CL I, ZONE 1 Ex db eb [ib] IIB Gb ENTITY IS I/O ACTIVE: XP CL I, DIV 1 GPS C, D & Associated Apparatus providing IS circuit to CL I, DIV 1, GPS C & D ACTIVE: CL I, ZONE 0 Ex db eb [ja IIC Ga] IIB Gb Amb. Temp. Limits -50 °C to +70 °C Temp. Class T4 SEE CONTROL DRAWING D7000002-611 Type 4X; IP66/67

Markings Entity HART passive When b = Tank Bus (Fieldbus - Power and Communication): E and when d = Secondary Communication Bus (HART[®]/4-20mA Passive IS Input/Output): D or 9: ENTITY IS POWER SUPPLY XP CL I, DIV 1 GPS C, D & Associated Apparatus providing IS circuit to CL I, DIV 1, GPS C & D; DIP CL II/III, DIV. 1, GP E, F & G; CL I, ZONE 1 Ex db eb [ib] IIB Gb ENTITY IS I/O PASSIVE: CL I, ZONE 1 Ex db eb ib IIB Gb Amb. Temp. Limits -50 °C to +70 °C Temp. Class T4 SEE CONTROL DRAWING D7000002-611 Type 4X; IP66/67

Specific Conditions of Use (X):


1. The flamepaths of the equipment are not intended to be repaired. Consult the manufacturer if repair of the flamepath joints is necessary.

Ex marking	Comm. Bus	Uo V	Io mA	Po W	Co μ F	Lo mH	Group
Ex db eb [ib] IIB T4 Gb	FISCO	15	354	5.32	-	-	IIB
Ex db eb [ia IIC Ga] IIB T4 Gb	HART/4-20mA Active	23.1	95.3	0.55	0.14	3.9	IIC
					1.0	15	IIB
					3.67	33	IIA
Ex db eb [ib] IIB T4 Gb	Fieldbus	15	200	3	1.99	143 μ H	IIB

Ex marking	Comm. Bus	Ui V	Ii mA	Pi W	Ci μ F	Li mH	Group
Ex db eb ib IIB T4 Gb	HART/4-20mA Passive	30	300	1	0	0	IIB

1.6 Europe

1.6.1 E1 ATEX Flameproof

Certificate	FM10ATEX0012X
Standards	EN IEC 60079-0:2018, EN 60079 - 1:2014, EN IEC 60079 - 7:2015 + A1:2018, EN 60079 - 11:2012, EN 60529:1992 + A1:2013 + A2:2013
Markings: 	<p>TANK HUB</p> <p>II 2(2) G Ex db eb [ib] IIB T4 Gb Ta = -50 °C to 70 °C; IP66, IP67</p> <p>TANK HUB (with Active Modem HART Board)</p> <p>II 2(2) G Ex db eb [ib] IIB T4 Gb Ta = -50 °C to +70 °C, IP66 / IP6</p> <p>II 2(1) G Ex db eb [ia IIC Ga] IIB T4 Gb Ta = -50 °C to 70 °C; IP66, IP67</p> <p>TANK HUB (with Passive Modem HART Board)</p> <p>II 2(2) G Ex db eb [ib] IIB T4 Gb Ta = -50 °C to +70 °C, IP66 / IP67</p> <p>II 2 G Ex db eb ib IIB T4 Gb Ta = -50 °C to 70 °C; IP66, IP67</p>

Specific Conditions of Use (X):

1. The flamepaths of the equipment are not intended to be repaired. Consult the manufacturer if repair of the flamepath joints is necessary.

Ex marking	Comm. Bus	Uo V	Io mA	Po W	Co µF	Lo mH	Group
Ex db eb [ib] IIB T4 Gb	FISCO	15	354	5.32	-	-	IIB
Ex db eb [ia IIC Ga] IIB T4 Gb	HART/4-20mA Active	23.1	95.3	0.55	0.14	3.9	IIC
					1.0	15	IIB
					3.67	33	IIA
Ex db eb [ib] IIB T4 Gb	Fieldbus	15	200	3	1.99	143 µH	IIB

Ex marking	Comm. Bus	Ui V	Ii mA	Pi W	Ci μF	Li mH	Group
Ex db eb ib IIB T4 Gb	HART/4-20mA Passive	30	300	1	0	0	IIB

1.7 International

1.7.1 E7 IECEx Flameproof

Certificate	IECEx FMG 10.0005X
Standards	IEC 60079-0:2017 Edition:7.0 IEC 60079-1:2014-06 Edition 7.0 IEC 60079-7:2017 Edition 5.1 IEC 60079-11:2011 Edition 6.0
Markings	Ex db eb [ib] IIB T4 Gb Ta = -50 °C to 70 °C; FISCO or Ex db eb [ib] IIB T4 Gb Ta = -50 °C to 70 °C; FISCO and Ex db eb [ia IIC Ga] IIB T4 Gb Ta = -50 °C to 70 °C Entity or Ex db eb [ib] IIB T4 Gb Ta = -50 °C to 70 °C; FISCO and Ex db eb ib IIB T4 Gb Ta = -50 °C to 70 °C Entity or Ex db eb ib IIB T4 Gb Ta = -50 °C to 70 °C Entity or Ex db eb ib IIB T4 Gb Ta = -50 °C to 70 °C Entity and Ex db eb [ia IIC Ga] IIB T4 Gb Ta = -50 °C to 70 °C Entity or Ex db eb [ib] IIB T4 Gb Ta = -50 °C to 70 °C Entity and Ex db eb ib IIB T4 Gb Ta = -50 °C to 70 °C Entity IP66; IP67

Specific Conditions of Use (X):

1. The flamepaths of the equipment are not intended to be repaired. Consult the manufacturer if repair of the flamepath joints is necessary.

Ex marking	Comm. Bus	Uo V	Io mA	Po W	Co μ F	Lo mH	Group
Ex db eb [ib] IIB T4 Gb	FISCO	15	354	5.32	-	-	IIB
Ex db eb [ia IIC Ga] IIB T4 Gb	HART/4-20mA Active	23.1	95.3	0.55	0.14	3.9	IIC
					1.0	15	IIB
					3.67	33	IIA
Ex db eb [ib] IIB T4 Gb	Fieldbus	15	200	3	1.99	143 μ H	IIB

Ex marking	Comm. Bus	Ui V	Ii mA	Pi W	Ci μ F	Li mH	Group
Ex db eb ib IIB T4 Gb	HART/4-20mA Passive	30	300	1	0	0	IIB

1.8 Brazil

1.8.1 E2 INMETRO Flameproof

Certificate	UL-BR 17.1017X
Standards	ABNT NBR IEC 60079-0:2013, ABNT NBR IEC 60079-1:2016, ABNT NBR IEC 60079-7:2018, ABNT NBR IEC 60079-11:2013
Markings	Ex db eb [ib] IIB T4 Gb Ex db eb [ia IIC] IIB T4 Gb Ex db eb ib IIB T4 Gb Tamb= -50 °C a +70 °C IP66/IP67

Ex marking	Comm. Bus	Uo V	Io mA	Po W	Co µF	Lo mH	Group
Ex db eb [ib] IIB T4 Gb	FISCO	15	354	5.32	-	-	IIB
Ex db eb [ia IIC] IIB T4 Gb	HART/4-20mA Active	23.1	95.3	0.55	0.14	3.9	IIC
					1.0	15	IIB
					3.67	33	IIA
Ex db eb [ib] IIB T4 Gb	Fieldbus	15	200	3	1.99	143 µH	IIB

Ex marking	Comm. Bus	Ui V	Ii mA	Pi W	Ci µF	Li mH	Group
Ex db eb ib IIB T4 Gb	HART/4-20mA Passive	30	300	1	0	0	IIB

Specific Conditions of Use for Ex Equipment or Schedule of Limitations For Ex Components (X):

See certificate

1.9 China

1.9.1 E3 China Flameproof

Certificate	GYJ20.1392X (CCC)
Standards	GB 3836.1 – 2021, GB 3836.2 – 2021, GB 3836.3 – 2021, GB 3836.4 – 2021
Markings	Ex db eb [ib] IIB T4 Gb Ex db eb [ia IIC Ga] IIB T4 Gb Ex db eb ib IIB T4 Gb

Ex marking	Comm. Bus	Uo V	Io mA	Po W	Co μF	Lo mH	Group
Ex db eb [ib] IIB T4 Gb	FISCO	15	354	5.32	-	-	IIB
Ex db eb [ia IIC] IIB T4 Gb	HART/4-20mA Active	23.1	95.3	0.55	0.14	3.9	IIC
					1.0	15	IIB
					3.67	33	IIA
Ex db eb [ib] IIB T4 Gb	Fieldbus	15	200	3	1.99	143 μH	IIB

Ex marking	Comm. Bus	Ui V	Ii mA	Pi W	Ci μF	Li mH	Group
Ex db eb ib IIB T4 Gb	HART/4-20mA Passive	30	300	1	0	0	IIB

Specific Conditions of Use (X):

See certificate

1.10 Technical Regulations Customs Union (EAC)

1.10.1 EM EAC Flameproof

Certificate	EAЭC KZ 7500525.01.01.00616
Markings	1Ex db eb [ib] IIB T4 Gb 1Ex db eb [ia IIC] IIB T4 Gb 1Ex db eb ib IIB T4 Gb Tamb= -50 °C a +70 °C IP66/IP67

Ex marking	Comm. Bus	Uo V	Io mA	Po W	Co μF	Lo mH	Group
Ex db eb [ib] IIB T4 Gb	FISCO	15	354	5.32	-	-	IIB
Ex db eb [ia IIC] IIB T4 Gb	HART/4-20mA Active	23.1	95.3	0.55	0.14	3.9	IIC
					1.0	15	IIB
					3.67	33	IIA
Ex db eb [ib] IIB T4 Gb	Fieldbus	15	200	3	1.99	143 μH	IIB

Ex marking	Comm. Bus	Ui V	Ii mA	Pi W	Ci μF	Li mH	Group
Ex db eb ib IIB T4 Gb	HART/4-20mA Passive	30	300	1	0	0	IIB

1.11 Japan

1.11.1 E4 Japan Flame-proof

Certificate CML 17JPN2086X

Markings TANK HUB

II 2(2) G Ex db eb [ib] IIB T4 Gb Ta = -20 °C to +60 °C; IP66, IP67

TANK HUB (with Active Modem HART Board)

II 2(2) G Ex db eb [ib] IIB T4 Gb Ta = -20 °C to +60 °C, IP66 / IP6

II 2(1) G Ex db eb [ia IIC Ga] IIB T4 Gb Ta = -20 °C to +70 °C; IP66, IP67

TANK HUB (with Passive Modem HART Board)

II 2(2) G Ex db eb [ib] IIB T4 Gb Ta = -20 °C to +60 °C, IP66 / IP67

II 2 G Ex db eb ib IIB T4 Gb Ta = -20 °C to +60 °C; IP66, IP67

Ex marking	Comm. Bus	Uo V	Io mA	Po W	Co μF	Lo mH	Group
Ex db eb [ib] IIB T4 Gb	FISCO	15	354	5.32	-	-	IIB
Ex db eb [ia IIC Ga] IIB T4 Gb	HART/4-20mA Active	23.1	95.3	0.55	0.14	3.9	IIC
					1.0	15	IIB
					3.67	33	IIA
Ex db eb [ib] IIB T4 Gb	Fieldbus	15	200	3	1.99	143 μH	IIB

Ex marking	Comm. Bus	Ui V	Ii mA	Pi W	Ci μF	Li mH	Group
Ex db eb ib IIB T4 Gb	HART/4-20mA Passive	30	300	1	0	0	IIB

Specific Conditions of Use (X):

See certificate

1.12 Republic of Korea

1.12.1 EP Korea Flameproof

Certificate 13-KB4BO-0458X, 13-KB4BO-0459X, 13-KB4BO-0460X

Markings Ex d e [ib] IIB T4
 Ex d e [ib] IIB T4, Ex d e [ia IIC] IIB T4
 Ex d e [ib] IIB T4, Ex d e ib IIB T4
 (-50 °C ≤ Ta ≤ +70 °C)

Ex marking	Comm. Bus	Uo V	Io mA	Po W	Co µF	Lo mH	Group
Ex db eb [ib] IIB T4 Gb	FISCO	15	354	5.32	-	-	IIB
Ex db eb [ia IIC] IIB T4 Gb	HART/4-20mA Active	23.1	95.3	0.55	0.14	3.9	IIC
					1.0	15	IIB
					3.67	33	IIA
Ex db eb [ib] IIB T4 Gb	Fieldbus	15	200	3	1.99	143 µH	IIB

Ex marking	Comm. Bus	Ui V	Ii mA	Pi W	Ci µF	Li mH	Group
Ex db eb ib IIB T4 Gb	HART/4-20mA Passive	30	300	1	0	0	IIB

1.13 India

1.13.1 EW CCOE Flameproof

Certificate P538024

Markings Ex db eb [ib] IIB T4 Gb (-50°C ≤ Ta ≤ +70°C)
 Ex db eb [ia IIC Ga] IIB T4 Gb (-50°C ≤ Ta ≤ +70°C)
 Ex db eb ib IIB T4 Gb (-50°C ≤ Ta ≤ +70°C)

Ex marking	Comm. Bus	Uo V	Io mA	Po W	Co μF	Lo mH	Group
Ex db eb [ib] IIB T4 Gb	FISCO	15	354	5.32	-	-	IIB
Ex db eb [ia IIC Ga] IIB T4 Gb	HART/4-20mA Active	23.1	95.3	0.55	0.14	3.9	IIC
					1.0	15	IIB
					3.67	33	IIA
Ex db eb [ib] IIB T4 Gb	Fieldbus	15	200	3	1.99	143 μH	IIB

Ex marking	Comm. Bus	Ui V	Ii mA	Pi W	Ci μF	Li mH	Group
Ex db eb ib IIB T4 Gb	HART/4-20mA Passive	30	300	1	0	0	IIB

1.14 United Arab Emirates

1.14.1 Flame-proof

Certificate	23-11-22694/Q23-11-048838/NB0002
Markings, ratings, conditions:	Same as IECEx (E7)

1.15 Additional certifications

1.15.1 Safety Certification (SIS)

3 Functional Safety

Certificate	ROS 1312032 C001 SIL 3 2-in-1 (1oo2) option (SIS-relays)
Standards	IEC 61508:2010 Parts 1-7

S Functional Safety

Certificate	ROS 1312032 C004 SIL 2 1-in-1 (1oo1) option, with 4-20mA or K1/K2 relay
Standards	IEC 61508:2010 Parts 1-7
Certificate	ROS 1312032 C005 SIL 2 2-in-1 (1oo1) option, with 4-20mA or K1/K2 relay
Standards	IEC 61508:2010 Parts 1-7

1.16 Conduit plugs and adapters

IECEX Flameproof and Increased Safety

Certificate	IECEX UL 18.0016X
Standards	IEC 60079-0:2017, IEC 60079-1:2014-06, IEC 60079-7:2017, IEC 60079-31:2013
Markings	Ex db eb IIC Gb Ex ta IIIC Da

ATEX Flameproof and Increased Safety

Certificate	DEMKO 18ATEX1986X
Standards	EN IEC 60079-0:2018, EN60079-1:2014, EN 60079-7:2015 +A1:2018, EN 60079-31:2014
Markings	Ⓔ II 2 G Ex db eb IIC Gb II 1 D Ex ta IIIC Da

Table 1-2: Conduit Plug Thread Sizes

Thread	Identification mark
M20 x 1.5	M20
½ - 14 NPT	½ NPT

Table 1-3: Thread Adapter Thread Sizes

Male thread	Identification mark
M20 x 1.5 – 6g	M20
½ - 14 NPT	½ - 14 NPT
Female thread	Identification mark
M20 x 1.5 – 6H	M20
½ - 14 NPT	½ - 14 NPT

Special Conditions for Safe Use (X):

1. The blanking plug shall not be used with an adapter.
2. Only one adapter shall be used with any single cable entry on the associated equipment.

3. It is the end user's responsibility to ensure that the ingress protection rating is maintained at the interface of the equipment and the blanking element/adaptor.
4. Suitability of the temperature of the devices is to be determined during end-use with suitability rated equipment.
5. The Ex Blanking Elements have been evaluated for use in an ambient temperature range of -60 °C to +125 °C

1.17 Approval drawings

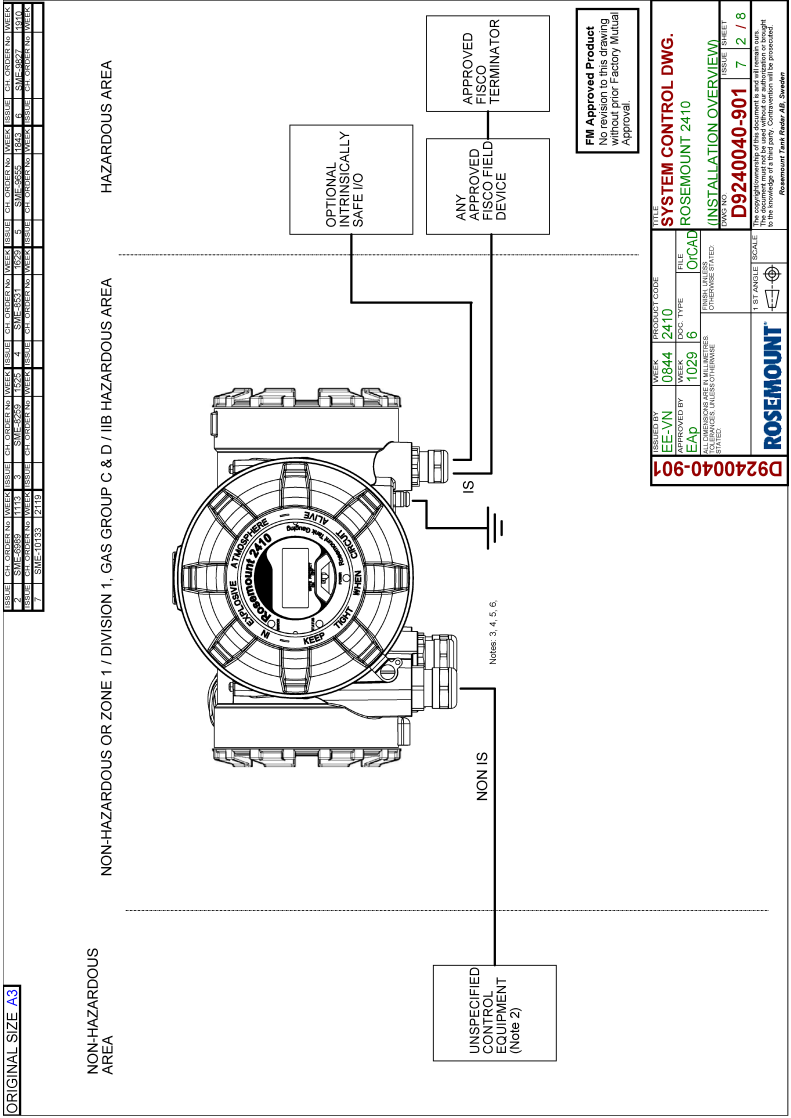
Follow the installation guidelines presented in Factory Mutual system control drawings in order to maintain certified ratings for installed devices.

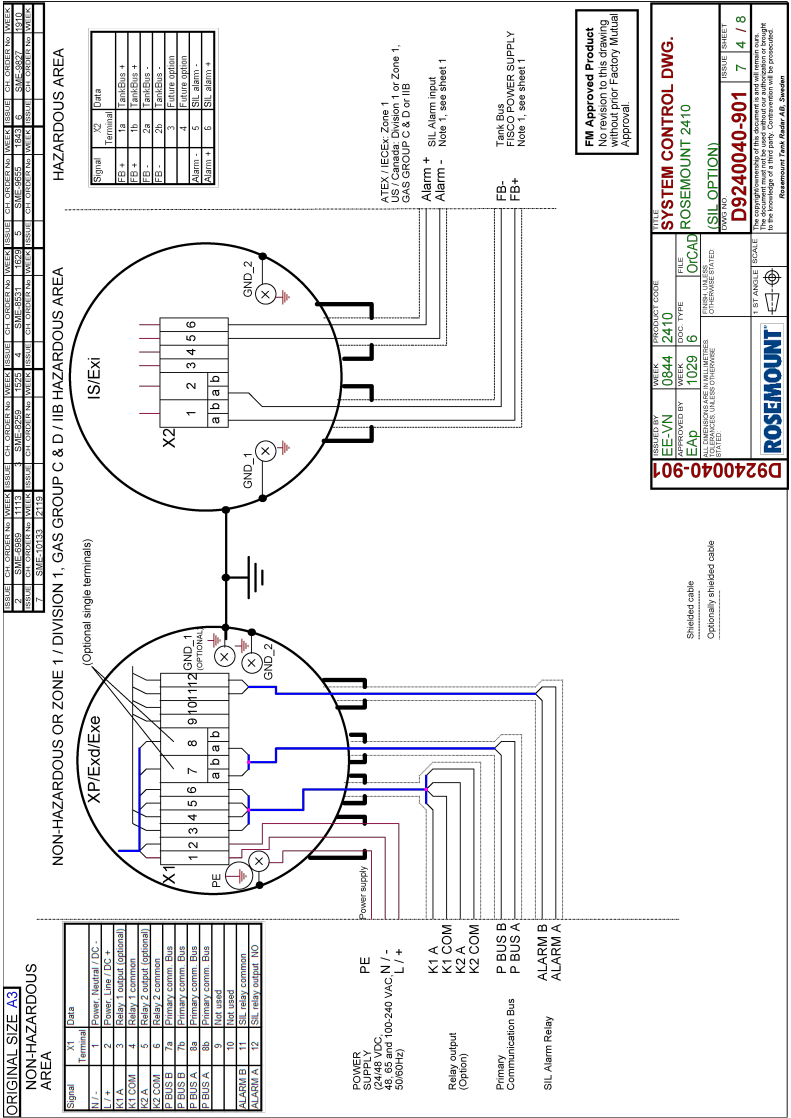
The following drawings are included in the documentation for the Rosemount 2410 Tank Hub:

D9240040-901 System Control Drawing for hazardous location installation of FISCO intrinsically safe FM ATEX, FM IECEx, FM-US, and FM-C approved apparatus.

See the “Manuals & Drawings” CD ROM that is shipped with the Rosemount 2410 Tank Hub for electronic copies of the system control drawings.




Drawings are also available on: [Rosemount 2410 Tank Hub drawings](#).





1.18 Declaration of Conformity

Figure 1-2: Rosemount 2410 EU Declaration of Conformity

	<h2 style="margin: 0;">Declaration of Conformity</h2>	
Rev. #3		
<p>We,</p> <p style="margin-left: 40px;">Rosemount Tank Radar AB Layoutvägen 1 S-435 33 MÖLNLYCKE Sweden</p> <p>declare under our sole responsibility that the product,</p> <p style="text-align: center;">Rosemount™ 2410 Tank Hub</p> <p>manufactured by,</p> <p style="margin-left: 40px;">Rosemount Tank Radar AB Layoutvägen 1 S-435 33 MÖLNLYCKE Sweden</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>Sr. Manager Product Approvals</p>	
<hr/> <p>(signature)</p>	<hr/> <p>(function)</p>	
<hr/> <p>Dajana Prastalo</p> <p>(name)</p>	<hr/> <p>26-Jan-24; Mölnlycke</p> <p>(date of issue & place)</p>	
<p>Page 1 of 3</p>		



Declaration of Conformity



EMC Directive (2014/30/EU)

Harmonized Standards: EN 61326-1:2013

ATEX Directive (2014/34/EU)

FM10ATEX0012X

Flameproof, Increased safety and intrinsic safety:

Tank Hub

Equipment Group II, Category 2(2) G, Ex db eb [ib] IIB T4 Ga

Tank Hub (with Active Modem HART Board)

Equipment Group II, Category 2(2) G, Ex db eb [ib] IIB T4 Gb

Equipment Group II, Category 2(1) G, Ex db eb [ia IIC Ga] IIB T4 Gb

Tank Hub (with Passive Modem HART Board)

Equipment Group II, Category 2(2) G, Ex db eb [ib] IIB T4 Gb

Equipment Group II, Category 2 G, Ex db eb ib IIB T4 Gb

Harmonized Standards:

EN IEC 60079-0:2018

EN 60079-1:2014

EN IEC 60079-7:2015 + A1:2018

EN 60079-11:2012

Low Voltage Directive (2014/35/EU)

Harmonized Standards: EN 61010-1:2010/A1:2019/AC:2019-04

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

RoHS Directive (2011/65/EU)

Harmonized Standards: EN IEC 63000:2018



Declaration of Conformity **CE**

ATEX Notified Body for EU Type Examination Certificates and Type Examination Certificates

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 Høvik
Norway



The most recent revision of the EU Declaration of Conformity for the Rosemount 2410 can be found at [Emerson.com/Rosemount](https://www.emerson.com/Rosemount).

1.19 China RoHS

Figure 1-3: List of Rosemount 2410 China RoHS Concentration above MCVs

List of Model Parts for models 5900, 2410, 2210, 2230, 2240 and 2460 with China RoHS Concentration above MCVs

表格 1: 含有 China RoHS 管控物质超过最大浓度限值的部件型号列表

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)
Electronics Assembly 电子组件	X	O	O	O	O	O
Housing Assembly 壳体组件	O	O	O	O	O	O

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

本表格系依据 SJ/T11364 的规定而制作。

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

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。

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.

X: 意为在该部件所使用的的所有均质材料里，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。



Product Certifications
00880-0100-2410, Rev. AB
October 2024

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

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