

Rosemount™ 5408 and 5408:SIS Level Transmitters

Product Certifications



HART 
COMMUNICATION PROTOCOL

 **EMERSON**™

1.0 Product certifications

Rev 1.2

1.1 European Directive Information

A copy of the EU Declaration of Conformity can be found on [page 16](#). The most recent revision of the EU Declaration of Conformity can be found at Emerson.com/Rosemount.

1.2 Telecommunication compliance

Measurement principle

Frequency Modulated Continuous Wave (FMCW), 26 GHz

Maximum output power

-5 dBm (0.32 mW)

Frequency range

24.05 to 27.0 GHz (TLPR)

24.05 to 26.5 GHz (LPR)

LPR (Level Probing Radar) equipment are devices for measurement of level in the open air or in a closed space. Model option “OA”. Hardware Version Identification Number (HVIN) is 5408L.

TLPR (Tank Level Probing Radar) equipment are devices for measurement of level in a closed space only (i.e metallic, concrete or reinforced fiberglass tanks, or similar enclosure structures made of comparable attenuating material). Hardware Version Identification Number (HVIN) is 5408T.

1.3 FCC

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC ID: K8C5408L (for LPR)

K8C5408T (for TLPR)

1.4 IC

This device complies with Industry Canada's licence-exempt RSS standard. Operation is subject to the following conditions:

1. This device may not cause interference.
2. This device must accept any interference received, including interference that may cause undesired operation.
3. The installation of the LPR/TLPR device shall be done by trained installers in strict compliance with the manufacturer's instructions.
4. The use of this device is on a "no-interference, no-protection" basis. That is, the user shall accept operations of high-powered radar in the same frequency band which may interfere with or damage this device. However, devices found to interfere with primary licensing operations will be required to be removed at the user's expense.
5. Devices operating under TLPR conditions (i.e. not operating in "Open Air" Mode) shall be installed and operated in a completely enclosed container to prevent RF emissions, which can otherwise interfere with aeronautical navigation.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux conditions suivantes:

1. l'appareil ne doit pas produire de brouillage.
2. l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.
3. L'installation d'un dispositif LPR ou TLPR doit être effectuée par des installateurs qualifiés, en pleine conformité avec les instructions du fabricant.
4. Ce dispositif ne peut être exploité qu'en régime de non-brouillage et de non-protection, c'est-à-dire que l'utilisateur doit accepter que des radars de haute puissance de la même bande de fréquences puissent brouiller ce dispositif ou même l'endommager. D'autre part, les capteurs de niveau qui perturbent une exploitation autorisée par licence de fonctionnement principal doivent être enlevés aux frais de leur utilisateur.
5. Un dispositif visé comme TLPR ("Open Air") doit être installé et exploité dans un réservoir entièrement fermé afin de prévenir les rayonnements RF qui pourraient autrement perturber la navigation aéronautique.

Certificate: 2827A-5408L (for LPR)

2827A-5408T (for TLPR)

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

This device complies with ETSI EN 302 372 (TLPR), ETSI EN 302 729 (LPR) and EN 62479.

For the receiver test that covers the influence of an interferer signal to the device, the performance criterion has at least the following level of performance according to ETSI TS 103 361 [6].

- Performance criterion: measurement value variation Δd over time during a distance measurement
- Level of performance: $\Delta d \leq \pm 2 \text{ mm}$

LPR (Level Probing Radar), model code “OA”

- Install at a separation distance of >4 km from Radio Astronomy sites, unless a special authorization has been provided by the responsible National regulatory authority (a list of Radio Astronomy sites may be found at www.craf.eu).
- Between 4 km to 40 km around any Radio Astronomy site the LPR antenna height shall not exceed 15 m height above ground.

TLPRI (Tank Level Probing Radar)

- The device must be installed in closed tanks. Install according to requirements in ETSI EN 302 372 (Annex E).

1.6 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.

1.7 USA

E5 FM Explosionproof (XP), Dust-Ignitionproof (DIP)

Certificate: FM16US0010X

Standards: FM Class 3600 – 2011; FM Class 3615 – 2006; FM Class 3810 – 2005; ANSI/ISA 60079-0 – 2013; ANSI/UL 60079-1 – 2015; ANSI/ISA 60079-26 – 2011; ANSI/ISA 60079-31 – 2015; ANSI/NEMA® 250 – 1991; ANSI/IEC 60529 – 2004

Markings: XP CL I, DIV 1, GRPS A, B, C, D T6...T2
DIP CLII/III, DIV 1, GRPS E, F, G; T6...T3
CL I Zone 0/1 AEx db IIC T6...T2 Ga/Gb
Zone 21 AEx tb IIIC T85 °C...T250 °C Db
(-40°C≤Ta≤70°C)⁽¹⁾; Type 4X/IP6X

Specific Conditions of Use (X):

1. Flamepath joints are not for repair. Contact the manufacturer.
2. Non-standard paint options (paint options other than Rosemount Blue) and plastic wire-on tag may cause risk from Electrostatic discharge. Avoid installation that could cause electrostatic build-up, and only clean with a damp cloth.
3. Appropriate cable, glands, and plugs need to be suitable for a temperature of 5°C greater than the maximum specified ambient temperature for location where installed.
4. The Transmitter can be installed in the boundary wall between a Zone 0 and Zone 1 area. In this configuration, the process connection is installed in Zone 0, while the transmitter housing is installed in Zone 1. Refer to Control Drawing D7000002-885.
5. Cable entries must be used which maintain the ingress protection of the enclosure to at least IP65 and/or Type 4X rating. To maintain the ingress protection ratings, Covers and Sensor Module to be fully tightened and PTFE tape or pipe dope is required for

1. Other temperature ranges may apply, see Specific Conditions of Use (X).

- cable entries and blanking plugs. See Instruction Manual on application requirements.
6. Install per Control drawing D7000002-885.
 7. Using the box provided on the nameplate, the User shall permanently mark the type of protection chosen for the specific installation. Once the type of protection has been marked it shall not be changed.
 8. Display glass shall be positioned in such a way as to minimize the risk of mechanical impact.
 9. The applicable temperature class, ambient temperature range and process temperature range of the equipment is as follows;

For Divisions:

Temperature class / Maximum surface temperature	Ambient temperature range	Process temperature range
Division Gas groups:		
T2	-40°C ≤ Ta ≤ 70°C	-40°C to 250°C
T3	-40°C ≤ Ta ≤ 70°C	-40°C to 195°C
T4	-40°C ≤ Ta ≤ 70°C	-40°C to 130°C
T5	-40°C ≤ Ta ≤ 70°C	-40°C to 95°C
T6	-40°C ≤ Ta ≤ 70°C	-40°C to 80°C
Division Dust groups:		
T3	-50°C ≤ Ta ≤ 70°C	-50°C to 160°C
T4	-50°C ≤ Ta ≤ 70°C	-50°C to 130°C
T5	-50°C ≤ Ta ≤ 70°C	-50°C to 95°C
T6	-50°C ≤ Ta ≤ 70°C	-50°C to 80°C

For Zones:

Temperature class / Maximum surface temperature	Ambient temperature range	Process temperature range
Zone Gas groups:		
T2	-50°C ≤ Ta ≤ 70°C	-50°C to 250°C
T3	-50°C ≤ Ta ≤ 70°C	-50°C to 195°C
T4	-50°C ≤ Ta ≤ 70°C	-50°C to 130°C
T5	-50°C ≤ Ta ≤ 70°C	-50°C to 95°C
T6	-50°C ≤ Ta ≤ 70°C	-50°C to 80°C
Zone Dust groups:		
T250°C	-60°C ≤ Ta ≤ 70°C	-60°C to 250°C
T200°C	-60°C ≤ Ta ≤ 70°C	-60°C to 195°C
T135°C	-60°C ≤ Ta ≤ 70°C	-60°C to 130°C
T100°C	-60°C ≤ Ta ≤ 70°C	-60°C to 95°C
T85°C	-60°C ≤ Ta ≤ 70°C	-60°C to 80°C

I5 FM Intrinsic Safety (IS), Non-Incendive (NI)

Certificate: FM16US0010X

Standards: FM Class 3600 – 2011; FM Class 3610 – 2015; FM Class 3611 – 2016; FM Class 3810 – 2005; ANSI/ISA 60079-0 – 2013; ANSI/ISA 60079-11 – 2013; ANSI/ISA 60079-26 – 2011; ANSI/NEMA 250 – 1991; ANSI/IEC 60529 – 2004

Markings: IS CL I, II, III DIV 1, GRPS A-G T4...T2

NI CL I, DIV 2, GRPS A-D T4...T2

S CL II, III DIV 2, GRPS E-G T4...T3

CL I Zone 0 AEx ia IIC T4...T2 Ga

CL I Zone 0/1 AEx ib IIC T4...T2 Ga/Gb

Zone 20 AEx ia IIIC T85°C...T250°C Da

(-60°C ≤ Ta ≤ +70°C)

When installed per Control Drawing D7000002-885

Safety parameter	HART®
Voltage U _i	30 V
Current I _i	133 mA
Power P _i	1.0 W
Capacitance C _i	7.3 nF
Inductance L _i	0

Specific Conditions of Use (X):

1. The Model 5408 Level Transmitter will not pass the 500Vrms dielectric strength test between the circuits and the earth ground. This must be taken into account during installation.
2. Non-standard paint options (paint options other than Rosemount Blue) and plastic wire-on tag may cause risk from Electrostatic discharge. Avoid installation that could cause electrostatic build-up, and only clean with a damp cloth.
3. Appropriate cable, glands, and plugs need to be suitable for a temperature of 5°C greater than the maximum specified ambient temperature for location where installed.
4. The Transmitter can be installed in the boundary wall between a Zone 0 and Zone 1 area. In this configuration, the process connection is installed in Zone 0, while the transmitter housing is installed in Zone 1. Refer to Control Drawing D7000002-885.
5. Using the box provided on the nameplate, the User shall permanently mark the type of protection chosen for the specific installation. Once the type of protection has been marked it shall not be changed.
6. The applicable temperature class, ambient temperature range and process temperature range of the equipment is as follows;

For Divisions:

Temperature class / Maximum surface temperature	Ambient temperature range	Process temperature range
Division Gas groups:		
T2	-60°C ≤ Ta ≤ 70°C	-60°C to 250°C
T3	-60°C ≤ Ta ≤ 70°C	-60°C to 195°C
T4	-60°C ≤ Ta ≤ 70°C	-60°C to 130°C
Division Dust groups:		
T3	-60°C ≤ Ta ≤ 70°C	-60°C to 160°C
T4	-60°C ≤ Ta ≤ 70°C	-60°C to 130°C
T5	-60°C ≤ Ta ≤ 70°C	-60°C to 95°C
T6	-60°C ≤ Ta ≤ 70°C	-60°C to 80°C

For Zones:

Temperature class / Maximum surface temperature	Ambient temperature range	Process temperature range
Zone Gas groups:		
T2	-60°C ≤ Ta ≤ 70°C	-60°C to 250°C
T3	-60°C ≤ Ta ≤ 70°C	-60°C to 195°C
T4	-60°C ≤ Ta ≤ 70°C	-60°C to 130°C
Zone Dust groups:		
T250°C	-60°C ≤ Ta ≤ 70°C	-60°C to 250°C
T200°C	-60°C ≤ Ta ≤ 70°C	-60°C to 195°C
T135°C	-60°C ≤ Ta ≤ 70°C	-60°C to 130°C
T100°C	-60°C ≤ Ta ≤ 70°C	-60°C to 95°C
T85°C	-60°C ≤ Ta ≤ 70°C	-60°C to 80°C

1.8 Canada

E6 CSA Explosionproof, Dust-Ignitionproof

Certificate: FM16CA0011X

Standards: C22.2 NO. 0.4-04:2004 (R2013), C22.2 NO. 0.5-16:2016, C22.2 No. 25-1966:1966 (R:2014), C22.2 No.30-M1986:1986 (R:2012), C22.2 No.94-M91:1991 (R:2011), C22.2 No. 1010.1:2004, CAN/CSA C22.2 No. 60079-0:2015 Ed. 3, C22.2 No. 60079-1:2016 Ed. 3, C22.2 No. 60079-26:2016; CAN/CSA-C22.2 No. 60079-31:2015, C22.2. 60529:2005 (R:2015)

Markings: XP CL I, DIV 1, GRPS A-D T6...T2
DIP CLII/III, DIV 1, GRPS E-G; T6...T3
Ex db IIC T6...T3 Gb
Ex tb IIIC T85 °C...T250°C Db
(-40°C ≤ Ta ≤ +70°C)⁽¹⁾; Type 4X/IP6X

1. Other temperature ranges may apply, see Specific Conditions of Use (X).

Specific Conditions of Use (X):

1. Flamepath joints are not for repair. Contact the manufacturer.
2. Non-standard paint options (paint options other than Rosemount Blue) and plastic wire-on tag may cause risk from Electrostatic discharge. Avoid installation that could cause electrostatic build-up, and only clean with a damp cloth.
3. Appropriate cable, glands, and plugs need to be suitable for a temperature of 5°C greater than the maximum specified ambient temperature for location where installed.
4. Metric Field Wiring Entries are not allowed for Divisions.
5. The Transmitter can be installed in the boundary wall between a Zone 0 and Zone 1 area. In this configuration, the process connection is installed in Zone 0, while the transmitter housing is installed in Zone 1. Refer to Control Drawing D7000002-885.
6. Cable entries must be used which maintain the ingress protection of the enclosure to at least IP65 and/or Type 4X rating. To maintain the ingress protection ratings, Covers and Sensor Module to be fully tightened and PTFE tape or pipe dope is required for cable entries and blanking plugs. See Instruction Manual on application requirements.
7. Install per Control Drawing D7000002-885.
8. Using the box provided on the nameplate, the User shall permanently mark the type of protection chosen for the specific installation. Once the type of protection has been marked it shall not be changed.
9. Display glass shall be positioned in such a way as to minimize the risk of mechanical impact.
10. The applicable temperature class, ambient temperature range and process temperature range of the equipment is as follows;

For Divisions:

Temperature class / Maximum surface temperature	Ambient temperature range	Process temperature range
Division Gas groups:		
T2	-40°C ≤ Ta ≤ 70°C	-40°C to 250°C
T3	-40°C ≤ Ta ≤ 70°C	-40°C to 195°C
T4	-40°C ≤ Ta ≤ 70°C	-40°C to 130°C
T5	-40°C ≤ Ta ≤ 70°C	-40°C to 95°C
T6	-40°C ≤ Ta ≤ 70°C	-40°C to 80°C
Division Dust groups:		
T3	-50°C ≤ Ta ≤ 70°C	-50°C to 160°C
T4	-50°C ≤ Ta ≤ 70°C	-50°C to 130°C
T5	-50°C ≤ Ta ≤ 70°C	-50°C to 95°C
T6	-50°C ≤ Ta ≤ 70°C	-50°C to 80°C

For Zones:

Temperature class / Maximum surface temperature	Ambient temperature range	Process temperature range
Zone Gas groups:		
T2	-50°C ≤ Ta ≤ 70°C	-50°C to 250°C
T3	-50°C ≤ Ta ≤ 70°C	-50°C to 195°C
T4	-50°C ≤ Ta ≤ 70°C	-50°C to 130°C
T5	-50°C ≤ Ta ≤ 70°C	-50°C to 95°C
T6	-50°C ≤ Ta ≤ 70°C	-50°C to 80°C
Zone Dust groups:		
T250°C	-60°C ≤ Ta ≤ 70°C	-60°C to 250°C
T200°C	-60°C ≤ Ta ≤ 70°C	-60°C to 195°C
T135°C	-60°C ≤ Ta ≤ 70°C	-60°C to 130°C
T100°C	-60°C ≤ Ta ≤ 70°C	-60°C to 95°C
T85°C	-60°C ≤ Ta ≤ 70°C	-60°C to 80°C

I6 CSA Intrinsically Safe and Non-Incendive Systems

Certificate: FM16CA0011X

Standards: C22.2 NO. 0.4-04:2004 (R2013), C22.2 NO. 0.5-16:2016, C22.2 No. 25-1966:1966 (R:2014), C22.2 No.94-M91:1991 (R:2011), C22.2 No. 213-16:2016, C22.2 No. 1010.1:2004, CAN/CSA C22.2 No. 60079-0:2015 Ed. 3, CAN/CSAC22.2 No. 60079-11:2014 Ed. 2, CAN/CSAC22.2 No. 60079-15:2015 Ed.2, C22.2 No. 60079-26:2016, C22.2. 60529:2005 (R:2015)

Markings: IS CL I, II, III DIV 1, GRPS A-G T4...T2

NI CL I, DIV 2, GRPS A-D T4...T2

S CL II, III DIV 2, GRPS E-G T4...T3

Ex ia IIC T4...T2 Ga

Ex ib IIC T4...T2 Ga/Gb

Ex ia IIIC T85°C...T250°C Da

(-60°C ≤ Ta ≤ +70°C)

When installed per Control Drawing D7000002-885

Safety parameter	HART
Voltage U_i	30 V
Current I_i	133 mA
Power P_i	1.0 W
Capacitance C_i	7.3 nF
Inductance L_i	0

Specific Conditions of Use (X):

1. The Model 5408 Level Transmitter will not pass the 500Vrms dielectric strength test between the circuits and the earth ground. This must be taken into account during installation.
2. Non-standard paint options (paint options other than Rosemount Blue) and plastic wire-on tag may cause risk from Electrostatic discharge. Avoid installation that could cause electrostatic build-up, and only clean with a damp cloth.

3. Appropriate cable, glands, and plugs need to be suitable for a temperature of 5°C greater than the maximum specified ambient temperature for location where installed.
4. The Transmitter can be installed in the boundary wall between a Zone 0 and Zone 1 area. In this configuration, the process connection is installed in Zone 0, while the transmitter housing is installed in Zone 1. Refer to Control Drawing D7000002-885.
5. Using the box provided on the nameplate, the User shall permanently mark the type of protection chosen for the specific installation. Once the type of protection has been marked it shall not be changed.
6. The applicable temperature class, ambient temperature range and process temperature range of the equipment is as follows;

For Divisions:

Temperature class / Maximum surface temperature	Ambient temperature range	Process temperature range
Division Gas groups:		
T2	-60°C ≤ Ta ≤ 70°C	-60°C to 250°C
T3	-60°C ≤ Ta ≤ 70°C	-60°C to 195°C
T4	-60°C ≤ Ta ≤ 70°C	-60°C to 130°C
Division Dust groups:		
T3	-60°C ≤ Ta ≤ 70°C	-60°C to 160°C
T4	-60°C ≤ Ta ≤ 70°C	-60°C to 130°C
T5	-60°C ≤ Ta ≤ 70°C	-60°C to 95°C
T6	-60°C ≤ Ta ≤ 70°C	-60°C to 80°C

For Zones:

Temperature class / Maximum surface temperature	Ambient temperature range	Process temperature range
Zone Gas groups:		
T2	-60°C ≤ Ta ≤ 70°C	-60°C to 250°C
T3	-60°C ≤ Ta ≤ 70°C	-60°C to 195°C
T4	-60°C ≤ Ta ≤ 70°C	-60°C to 130°C
Zone Dust groups:		
T250°C	-60°C ≤ Ta ≤ 70°C	-60°C to 250°C
T200°C	-60°C ≤ Ta ≤ 70°C	-60°C to 195°C
T135°C	-60°C ≤ Ta ≤ 70°C	-60°C to 130°C
T100°C	-60°C ≤ Ta ≤ 70°C	-60°C to 95°C
T85°C	-60°C ≤ Ta ≤ 70°C	-60°C to 80°C

1.9 Europe

E1 ATEX Flameproof

Certificate: FM15ATEX0055X

Standards: EN 60079-0:2012, EN 60079-1:2014, EN 60079-26:2015,
EN 60079-31:2014, EN 60529+A1+A2:2013

Markings: II 1/2G Ex db IIC T6...T2 Ga/Gb
II 2D Ex tb IIIC T85°C... T250°C Db, IP6X
(-60°C ≤ Ta ≤ +70 °C)

Specific Conditions of Use (X):

1. Flamepath joints are not for repair. Contact the manufacturer.
2. Non-standard paint options (paint options other than Rosemount Blue) and plastic wire-on tag may cause risk from Electrostatic discharge. Avoid installation that could cause electrostatic build-up, and only clean with a damp cloth.
3. Appropriate cable, glands, and plugs need to be suitable for a temperature of 5°C greater than the maximum specified ambient temperature for location where installed.
4. The Transmitter can be installed in the boundary wall between a Category 1 and Category 2 location. In this configuration, the process connection is installed in Category 1, while the transmitter housing is installed in Category 2. Refer to Control Drawing D7000002-885.
5. Cable entries must be used which maintain the ingress protection of the enclosure to at least IP65. To maintain the ingress protection ratings, Covers and Sensor Module to be fully tightened and PTFE tape or pipe dope is required for cable entries and blanking plugs. See Instruction Manual on application requirements.
6. Install per Control Drawing D7000002-885.
7. Using the box provided on the nameplate, the User shall permanently mark the type of protection chosen for the specific installation. Once the type of protection has been marked it shall not be changed.
8. Display glass shall be positioned in such a way as to minimize the risk of mechanical impact.
9. The applicable temperature class, ambient temperature range and process temperature range of the equipment is as follows;

Temperature class / Maximum surface temperature	Ambient temperature range	Process temperature range
Gas & Dust groups:		
T2 / T250°C	-60°C ≤ Ta ≤ 70°C	-60°C to 250°C
T3 / T200°C	-60°C ≤ Ta ≤ 70°C	-60°C to 195°C
T4 / T135°C	-60°C ≤ Ta ≤ 70°C	-60°C to 130°C
T5 / T100°C	-60°C ≤ Ta ≤ 70°C	-60°C to 95°C
T6 / T85°C	-60°C ≤ Ta ≤ 70°C	-60°C to 80°C

I1 ATEX Intrinsic Safety

Certificate: FM15ATEX0055X

Standards: EN 60079-0:2012, EN 60079-11:2012, EN 60079-26:2015

Markings: II 1G Ex ia IIC T4...T2 Ga

II 1/2G Ex ib IIC T4...T2 Ga/Gb

II 1D Ex ia IIIC T135°C...T250°C Da

II 2D Ex ib IIIC T135°C...T250°C Db

(-60°C ≤ Ta ≤ +70°C)

Safety parameter	HART
Voltage U _i	30 V
Current I _i	133 mA
Power P _i	1.0 W
Capacitance C _i	7.3 nF
Inductance L _i	0

Specific Conditions of Use (X):

1. The Model 5408 Level Transmitter will not pass the 500Vrms dielectric strength test between the circuits and the earth ground. This must be taken into account during installation.
2. Non-standard paint options (paint options other than Rosemount Blue) and plastic wire-on tag may cause risk from Electrostatic discharge. Avoid installation that could cause electrostatic build-up, and only clean with a damp cloth.
3. Appropriate cable, glands, and plugs need to be suitable for a temperature of 5°C greater than the maximum specified ambient temperature for location where installed.
4. The Transmitter can be installed in the boundary wall between a Category 1 and Category 2 location. In this configuration, the process connection is installed in Category 1, while the transmitter housing is installed in Category 2. Refer to Control Drawing D7000002-885.
5. Using the box provided on the nameplate, the User shall permanently mark the type of protection chosen for the specific installation. Once the type of protection has been marked it shall not be changed.
6. The applicable temperature class, ambient temperature range and process temperature range of the equipment is as follows;

Temperature class / Maximum surface temperature	Ambient temperature range	Process temperature range
Gas groups:		
T2	-60°C ≤ Ta ≤ 70°C	-60°C to 250°C
T3	-60°C ≤ Ta ≤ 70°C	-60°C to 195°C
T4	-60°C ≤ Ta ≤ 70°C	-60°C to 130°C
Dust groups:		
T250°C	-60°C ≤ Ta ≤ 70°C	-60°C to 250°C
T200°C	-60°C ≤ Ta ≤ 70°C	-60°C to 195°C
T135°C	-60°C ≤ Ta ≤ 70°C	-60°C to 130°C
T100°C	-60°C ≤ Ta ≤ 70°C	-60°C to 95°C
T85°C	-60°C ≤ Ta ≤ 70°C	-60°C to 80°C

N1 ATEX Type N: Non-Sparking

Certificate: FM15ATEX0056X

Standards: EN 60079-0:2012, EN 60079-15:2010

Markings:  II 3G Ex nA IIC T4...T2 Gc, IP65

(-34°C ≤ Ta ≤ +70°C)

V≤42.4V, I≤23 mA

Specific Conditions of Use (X):

1. The Model 5408 Level Transmitter will not pass the 500Vrms dielectric strength test between the circuits and the earth ground. This must be taken into account during installation.
2. Cable entries must be used which maintain the ingress protection of the enclosure to at least IP65. To maintain the ingress protection ratings, Covers and Sensor Module to be fully tightened and PTFE tape or pipe dope is required for cable entries and blanking plugs. See Instruction Manual on application requirements.
3. The applicable temperature class, ambient temperature range and process temperature range of the equipment is as follows;

Temperature class	Ambient temperature range	Process temperature range
T2	-34°C ≤ Ta ≤ 70°C	-34°C to 250°C
T3	-34°C ≤ Ta ≤ 70°C	-34°C to 195°C
T4	-34°C ≤ Ta ≤ 70°C	-34°C to 130°C

1.10 International**E7 IECEx Flameproof**

Certificate: IECEx FMG15.0033X

Standards: IEC 60079-0:2011, IEC 60079-1:2014; IEC 60079-26:2014, IEC 60079-31:2013

Markings: Ex db IIC T6...T2 Ga/Gb

Ex tb IIIC T85 °C...T250°C Db IP65

(-60°C ≤ Ta ≤ +70 °C)

Specific Conditions of Use (X):

1. Flamepath joints are not for repair. Contact the manufacturer.
2. Non-standard paint options (paint options other than Rosemount Blue) and plastic wire-on tag may cause risk from Electrostatic discharge. Avoid installation that could cause electrostatic build-up, and only clean with a damp cloth.
3. Appropriate cable, glands, and plugs need to be suitable for a temperature of 5°C greater than the maximum specified ambient temperature for location where installed.
4. The Transmitter can be installed in the boundary wall between EPL Ga and EPL Gb. In this configuration, the process connection is EPL Ga, while the transmitter housing is EPL Gb. Refer to Control Drawing D7000002-885.
5. Cable entries must be used which maintain the ingress protection of the enclosure to at least IP65. To maintain the ingress protection ratings, Covers and Sensor Module to be fully tightened and PTFE tape or pipe dope is required for cable entries and blanking plugs. See Instruction Manual on application requirements.
6. Install per Control Drawing D7000002-885.
7. Using the box provided on the nameplate, the User shall permanently mark the type of protection chosen for the specific installation. Once the type of protection has been marked it shall not be changed.

8. Display glass shall be positioned in such a way as to minimize the risk of mechanical impact.
9. The applicable temperature class, ambient temperature range and process temperature range of the equipment is as follows;

Temperature class / Maximum surface temperature	Ambient temperature range	Process temperature range
Gas & Dust groups:		
T2 / T250°C	-60°C ≤ Ta ≤ 70°C	-60°C to 250°C
T3 / T200°C	-60°C ≤ Ta ≤ 70°C	-60°C to 195°C
T4 / T135°C	-60°C ≤ Ta ≤ 70°C	-60°C to 130°C
T5 / T100°C	-60°C ≤ Ta ≤ 70°C	-60°C to 95°C
T6 / T85°C	-60°C ≤ Ta ≤ 70°C	-60°C to 80°C

I7 IECEEx Intrinsic Safety

Certificate: IECEEx FMG15.0033X

Standards: IEC 60079-0:2011, IEC 60079-11:2011, IEC 60079-26:2014

Markings: Ex ia IIC T4...T2 Ga

Ex ib IIC T4...T2 Gb/Gb

Ex ia IIIC T135°C...T250°C Da

Ex ib IIIC T135°C...T250°C Db

(-60°C ≤ Ta ≤ +70°C)

Safety parameter	HART
Voltage U _i	30 V
Current I _i	133 mA
Power P _i	1.0 W
Capacitance C _i	7.3 nF
Inductance L _i	0

Specific Conditions of Use (X):

1. The Model 5408 Level Transmitter will not pass the 500Vrms dielectric strength test between the circuits and the earth ground. This must be taken into account during installation.
2. Non-standard paint options (paint options other than Rosemount Blue) and plastic wire-on tag may cause risk from Electrostatic discharge. Avoid installation that could cause electrostatic build-up, and only clean with a damp cloth.
3. Appropriate cable, glands, and plugs need to be suitable for a temperature of 5°C greater than the maximum specified ambient temperature for location where installed.
4. The Transmitter can be installed in the boundary wall between EPL Ga and EPL Gb. In this configuration, the process connection is EPL Ga, while the transmitter housing is EPL Gb. Refer to Control Drawing D7000002-885.
5. Using the box provided on the nameplate, the User shall permanently mark the type of protection chosen for the specific installation. Once the type of protection has been marked it shall not be changed.

6. The applicable temperature class, ambient temperature range and process temperature range of the equipment is as follows;

Temperature class / Maximum surface temperature	Ambient temperature range	Process temperature range
Gas groups:		
T2	-60°C ≤ Ta ≤ 70°C	-60°C to 250°C
T3	-60°C ≤ Ta ≤ 70°C	-60°C to 195°C
T4	-60°C ≤ Ta ≤ 70°C	-60°C to 130°C
Dust groups:		
T250°C	-60°C ≤ Ta ≤ 70°C	-60°C to 250°C
T200°C	-60°C ≤ Ta ≤ 70°C	-60°C to 195°C
T135°C	-60°C ≤ Ta ≤ 70°C	-60°C to 130°C
T100°C	-60°C ≤ Ta ≤ 70°C	-60°C to 95°C
T85°C	-60°C ≤ Ta ≤ 70°C	-60°C to 80°C

N7 IECEEx Type N: Non-Sparking

Certificate: IECEEx FMG15.0033X

Standards: IEC 60079-0:2011, IEC 60079-15:2010

Markings: Ex nA IIC T4...T2 Gc
 (-34°C ≤ Ta ≤ +70°C), IP65
 V ≤ 42.4V, I ≤ 23 mA

Specific Conditions of Use (X):

1. The Model 5408 Level Transmitter will not pass the 500Vrms dielectric strength test between the circuits and the earth ground. This must be taken into account during installation.
2. Cable entries must be used which maintain the ingress protection of the enclosure to at least IP65. To maintain the ingress protection ratings, Covers and Sensor Module to be fully tightened and PTFE tape or pipe dope is required for cable entries and blanking plugs. See Instruction Manual on application requirements.
3. The applicable temperature class, ambient temperature range and process temperature range of the equipment is as follows;

Temperature class	Ambient temperature range	Process temperature range
T2	-34°C ≤ Ta ≤ 70°C	-34°C to 250°C
T3	-34°C ≤ Ta ≤ 70°C	-34°C to 195°C
T4	-34°C ≤ Ta ≤ 70°C	-34°C to 130°C

Figure 1. Rosemount 5408 EU Declaration of Conformity

EU Declaration of Conformity

No: 5408

We,

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

declare under our sole responsibility that the product,

RosemountTM 5408 Level Transmitter

manufactured by,

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

is in conformity with the provisions of the European Community Directives, including the latest amendments, as shown in the attached schedule.

Presumption of conformity is based on the application of the harmonized standards, normative documents or other documents and, when applicable or required, a European Community notified body certification, as shown in attached schedule.

(signature)

Manager Product Approvals

(function name - printed)

Dajana Prastalo

(name - printed)

2016-11-25

(date of issue)

EMERSON



Schedule
No: 5408

EMC, Electromagnetic Compatibility Directive (2014/30/EU)

EN 61326-1:2013

ATEX, Explosive Atmospheres Directive (2014/34/EU)

FM15ATEX0055X

Intrinsic Safety (Hart@ 4-20mA):

Equipment Group II, Category 1G, Ex ia IIC T4...T2 Ga
Equipment Group II, Category 1/2G, Ex ib IIC T4...T2 Ga/Gb
Equipment Group II, Category 1D, Ex ia IIIC T85°C...T250°C Da

Flameproof (Hart@ 4-20mA)::

Equipment Group II, Category 1/2G, Ex db IIC T6...T2 Ga/Gb
Equipment Group II, Category 2D, Ex tb IIIC T85°C...T250°C Db

EN 60079-0:2012; EN 60079-1:2014; EN 60079-11:2012; EN 60079-26:2015;
EN 60079-31:2014

FM15ATEX0056X

Type of protection N, Non-sparking (Hart@ 4-20mA):

Equipment Group II, Category 3G, Ex nA IIC T4...T2 Gc

EN60079-0:2012; EN60079-15:2010





Schedule
No: 5408

RE, Radio Equipment Directive (2014/53/EU)

ETSI EN 302 372:2011; ETSI EN 302 729:2011; EN 62479:2010

Low Voltage Directive (2014/35/EU)

EN 61010-1:2010

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

FM Approvals Ltd [Notified Body Number: 1725]
1 Windsor Dials
Bershire
UK. SL4 1RS

ATEX Notified Body for Quality Assurance

DNV Nemko Presafe AS [Notified Body Number: 2460]
P.O. Box 73, Blindern
0314 Oslo
Norway



Figure 2. D7000002-885 - System Control Drawing

SYSTEM CONTROL DRAWING – ROSEMOUNT 5408 SERIES

GENERAL INFORMATION

- No revision to drawing without prior FM Approval.
- Associated apparatus manufacturer's installation drawing must be followed when installing this equipment.
- Installations in the U.S. should be in accordance with ANSI/ISA RP2.06.01 "Installation of Intrinsically Safe Systems for Hazardous (Classified) Locations" and the latest edition of the National Electrical Code (ANSI/NFPA 70).
- Installation in Canada should be in accordance with the latest edition of the C2.21 Canadian Electrical Code, Part I.
- Installations in Europe shall comply with the relevant requirements of EN 60079-14 and applicable National regulations.
- Installation sites for IECEx certification shall be in accordance with [latest editions of the wing practices for fire control of gas/
- The EPL Gas partition is intended if the transmitter is removed from the antenna connection site, there is a risk of flammable gas release and flame entrance.
- Install cover before removing the transmitter.
- Thread size after 7/14 NP T or M20x1.5. Identification of thread size and type (No marking) \rightarrow 7/14 NP T.
- Additional installation requirements are found in the Quick Start Guide (doc no 00825-0100-4408) and the Product Certification Document (doc no 00825-0200-4408).
- See table below for applicable P/T ratings for different antenna types.

ISSUE	CHANGE ORDER NO.	WEEK	ISSUE	CHANGE ORDER NO.	WEEK	ISSUE	CHANGE ORDER NO.	WEEK
TIME & S.	0106	2	3001-3026	1050				

Antenna Type	Operating Temperature and Pressure
Cone Antenna (PTFE seal, CAA)	-15 ... 363 psig (-1 ... 25 bar) -76...392°F (-60...200°C)
Cone Antenna (PTFE seal, CAB)	-15 ... 729 psig (-1 ... 50 bar) -40...302°F (-60...150°C)
Cone Antenna (PTFE seal, CAC)	-15 ... 1450 psig (-1 ... 100 bar) -40...212°F (-40...100°C)
Cone Antenna (PTFE seal, CAD)	-15 ... 441 psig (-1 ... 3 bar) -76...482°F (-60...250°C)
Cone Antenna (PEEK seal, FWNQ, CBF)	-15 ... 754 psig (-1 ... 52 bar) -76...398°F (-60...170°C)
Cone Antenna (PEEK seal, Kalrez, CRK)	-15 ... 754 psig (-1 ... 52 bar) -5...482°F (-15...250°C)
Cone Antenna (PEEK seal, Viton, CBV)	-15 ... 754 psig (-1 ... 52 bar) -22...392°F (-30...200°C)
Cone Antenna (PEEK seal, FRM, CBM)	-15 ... 754 psig (-1 ... 52 bar) -13...428°F (-25...220°C)
Parabolic Antenna (Swivel Mount, PAS)	-7...43 psig (0.5...3 bar) -67...392°F (-55...200°C)

CONDUIT THREAD, BOTH SIDES
(see note 9)

WARNING – Substitution of components may impair intrinsic Safety.
WARNING – Potential electrical charging hazard
WARNING – To prevent ignition of flammable or combustible atmospheres, disconnect power before servicing. Do not open when an explosive atmosphere is present.

AVERTISSEMENT – La substitution de composants peut compromettre la sécurité intrinsèque
AVERTISSEMENT – Risque potentiel de charge électrostatique
AVERTISSEMENT – Ne pas ouvrir en cas de présence d'atmosphère explosive

ROSE MOUNT		Rosemount Part No. 5408 Series		Rosemount Part No. 5408 Series		Rosemount Part No. 5408 Series	
Part No.	Material	Part No.	Material	Part No.	Material	Part No.	Material
DS000002885	Stainless Steel	RS-LH	Stainless Steel	RS-LH	Stainless Steel	RS-LH	Stainless Steel
		1524	1524	1524	1524	1524	1524
		EA/P	EA/P	EA/P	EA/P	EA/P	EA/P
		6	6	6	6	6	6
		A3	A3	A3	A3	A3	A3
		REAR	REAR	REAR	REAR	REAR	REAR

FM APPROVED PRODUCT
No revisions to this drawing without prior Factory Mutual Approval.

D700002885 D700002885 D700002885

1. No revision to drawing without prior FM Approval.
2. Associated apparatus manufacturers installation drawing must be followed when

installing this equipment
Installations in the U.S. should be in accordance with ANSI/ISA RP12.06.01

3. Installations in the U.S. should be in accordance with ANSI/ISA RP-12.06.01
"Installation of Intrinsically Safe Systems for Hazardous (Classified) Locations" and

the latest edition of the National Electrical Code (ANSI/NFPA 70). Installation in Canada should be in accordance with the latest edition of the C22.1

Installation in Canada should be in accordance with the latest edition of the C22.1 Canadian Electrical Code, Part I.

5. Installations in Europe shall comply with the relevant requirements of EN 60079-14 and applicable National regulations

3. Installations for IECEx certification shall be in accordance with latest editions of the and applicable National regulations.

The EPI Ga partition wall is made of stainless steel and a welded fused glass/welding practices for the county of origin.

The EPL Ga partition wall is made of stainless steel and a welded fused glass/stainless steel lens.

3. The EPL Ga/Gb separation is invalidated if the transmitter is removed from the antenna connection i.e. there is a risk of flammable gas release and flame entrance

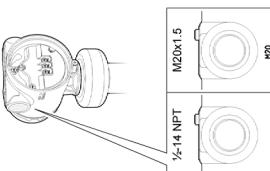
antenna connection i.e. there is a risk of ignitable gas release and flame entrance. Disconnect power before removing the transmitter.

9. Thread size either 1/2-14 NPT or M20x1.5. Identification of thread size and type (No marking = 1/2-14 NPT)

making $\pi_2(NP^{-1})$.

卷之三

CONDUIT THREAD, BOTH SIDES
(see note 9)



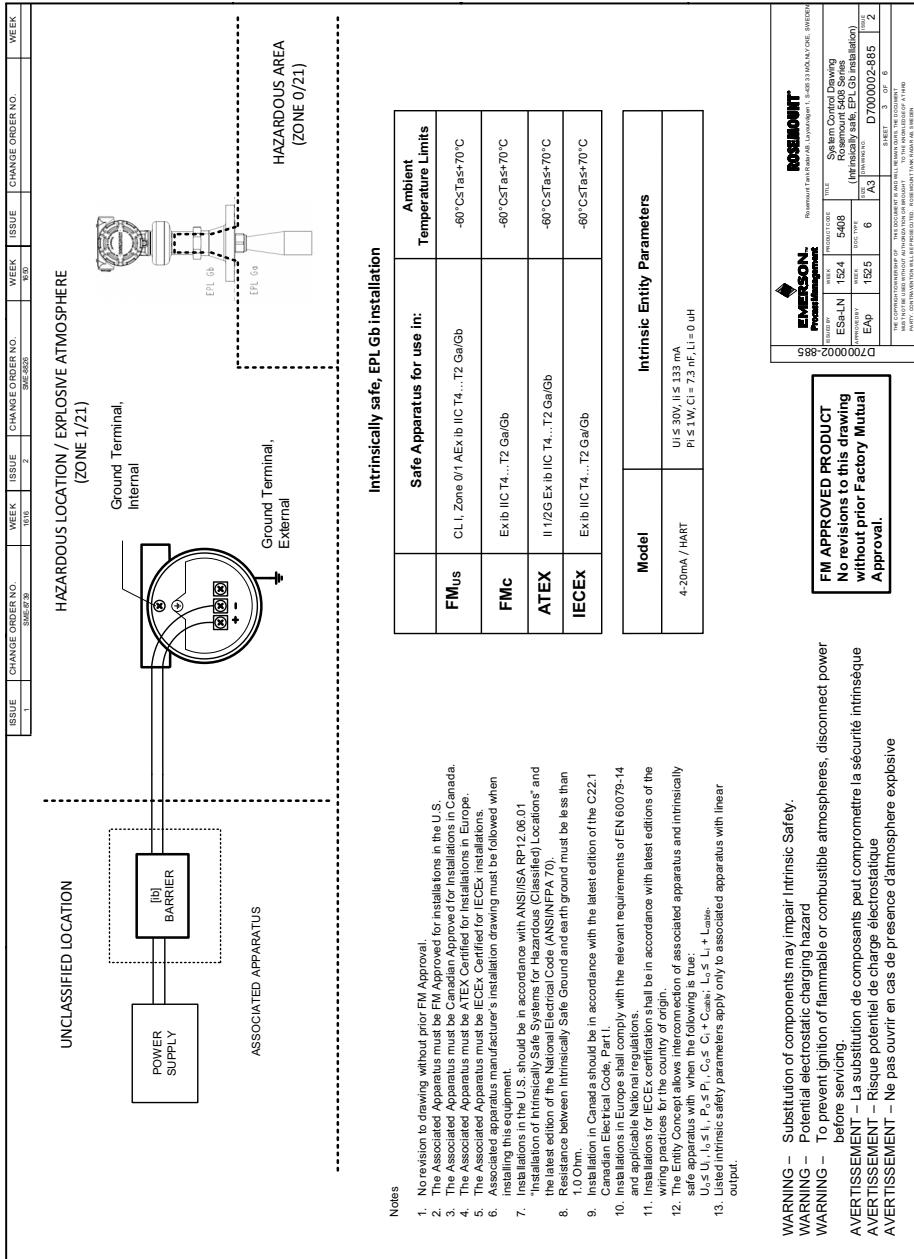
WARNING – Substitution of components may impair Intrinsic Safety.

WARNING – Potential electrostatic charging hazard.

WARNING – To prevent ignition of flammable or combustible atmospheres.

Avertissement = | a substitution de composants peut compromettre

AVERTISSEMENT – La substitution de composants peut compliquer l'émission.



ISSUE	CHANGE ORDER NO.	WEEK	ISSUE	CHANGE ORDER NO.	WEEK	ISSUE	CHANGE ORDER NO.	WEEK
1	SME/2019	2	SME/2020		160			

UNCLASSIFIED LOCATION

HAZARDOUS LOCATION / EXPLOSIVE ATMOSPHERE (ZONE 1/21 DIVISION 1)

Notes

1. No revision to drawing without prior FM Approval.
2. The control room equipment connected to Associated Apparatus must not generate more than 250 Vrms or Vac.
3. Insulations in the U.S. should be in accordance with the latest edition of the National Electrical Code (ANSI/NFPA 70).
4. Insulation in Canada should be in accordance with the latest edition of the Canadian Electrical Code, Part 1.
5. Insulations in Europe shall comply with the relevant requirements of EN 60079-14 and applicable National regulations.
6. Insulations for IECEx certification shall be in accordance with latest editions of the wiring practices for the country of origin.
7. -50°C for Division Dust, -60°C for Zone Dust and -50°C for Zone Gas installations.

Notes

1. Substitution of components may impair Intrinsic Safety.
2. Potential electrostatic charging hazard.
3. To prevent ignition of flammable or combustible atmospheres, disconnect power before servicing. Do not open when an explosive atmosphere is present.
4. In explosive atmosphere keep light when circuit are alive.
5. Seal to be installed within 50 mm of the enclosure (applicable for Canada/Zone).
6. La substitution de composants peut compromettre la sécurité intrinsèque.
7. Risque potentiel de charge électrique statique.
8. Ne pas ouvrir en cas de présence d'atmosphère explosive.
9. Ouvrir le circuit avant de renverser le couvercle.
10. Un dispositif d'ébranchement doit être installé à 50mm du boîtier (applicable pour Canada/Zone).

Flameproof/Xp Installation

	Safe Apparatus for use in:	Ambient Temperature Limits
FMus	Xp Class I, Div 1, Gr A-D T6...T2 DIP Cl. II, III DIN 40 041 GP E-G T6...T3 Cl. I Zone 0/1 AEx dIB ic IIC T6 Ga/Gb Zone 2/21 AEx tb IIC T85°C...T250°C Db	-40°C ≤ Ta ≤ +70°C (see note 7)
FMc	Xp Class I, Div 1, Gr A-D T6...T2 DIP Cl. II, III DIN 40 041 GP E-G T6...T3 Ex ib IIC T6...T2 Ga/Gb Ex tb IIC T85°C...T250°C Db	-40°C ≤ Ta ≤ +70°C (see note 7)
ATEX	II 1/2G Ex dIIB T6...T2 Ga/Gb II 2D Ex tb IIC T85°C...T250°C Db	-60°C ≤ Ta ≤ +70°C
IECEx	Ex ib IIC T6...T2 Ga/Gb Ex tb IIC T85°C...T250°C Db	-60°C ≤ Ta ≤ +70°C

Normal Operating Parameters

Model	Normal Operating Parameters
	4-20mA / HART $U \leq 42.4V, I \leq 23 mA$

FM APPROVED PRODUCT
No revisions to this drawing without prior Factory Mutual Approval.

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System Control Drawing
Rosemount 5408
(Pneumatic Assembly)
EPA# 1925
REV. C
DATE 07/00/2008
D7000002-885
2

ISSUE	CHANGE ORDER NO.	WEEK	ISSUE	CHANGE ORDER NO.	WEEK	ISSUE	CHANGE ORDER NO.	WEEK
1	S&E-02-39	Wk	2	S&E-02-39	Wk	100		

UNCLASSIFIED LOCATION

POWER SUPPLY

GROUND TERMINAL INTERNAL

GROUND TERMINAL EXTERNAL

HAZARDOUS LOCATION / EXPLOSIVE ATMOSPHERE (ZONE 2 DIVISION 2)

Non-incendive installation

	Safe Apparatus for use in:	Ambient Temperature Limits
FMus	NIC I DIV 2 GP A-D T4...T2 S Cl. II DIV 2 GP E-G T4...T3	-60°C<Ta≤70°C
FMc	NIC I DIV 2 GP A-T4...T2 S Cl. II, III DIV 2 GP E-G T4...T3	-60°C<Ta≤70°C
ATEX	II 3 G Ex Na IIC T4...T2 Gc	-34°C<Ta≤70°C
IECEx	Ex Na IIC T4...T2 Gc	-34°C<Ta≤70°C

Notes

1. No revision to drawing without prior FM Approval.
2. Installation in the U.S. should be in accordance with the latest edition of the National Electrical Code (ANSI/NFPA 70).
3. Installation in Canada should be in accordance with the latest edition of the C22.1 Canadian Electrical Code, Part 1.
4. Installation in Europe shall comply with the relevant requirements of EN 60079-14 and applicable National regulations.
5. Installation for IECEx certification shall be in accordance with latest editions of the wiring practices for the country of origin.

WARNING – Substitution of components may impair Intrinsic Safety.

WARNING – Potential electrostatic charging hazard

WARNING – To prevent ignition of flammable or combustible atmospheres, disconnect power before servicing.

AVERTISSEMENT – La substitution de composants peut compromettre la sécurité intrinsèque

AVERTISSEMENT – Risque potentiel de charge électrostatique

AVERTISSEMENT – Ne pas ouvrir en cas de présence d'atmosphère explosive

EMERSON
Process Management

Request for a copy of the drawings or parts list to:
S&E-02-39, Emerson Process Management, 1000 N. Meridian Rd., Indianapolis, IN 46290, USA

System Control Drawing
Rosenmund 5408 Series
(Non-Incendive Certification)
D700002-885

Sheet 5 of 6

Detailed description of the drawing: This drawing shows the system control drawing for the Emerson Process Management Rosenmund 5408 Series (Non-Incendive Certification) system. It includes the system architecture, functional block diagram, and detailed component specifications. The drawing is intended for use in the design and manufacture of the system.

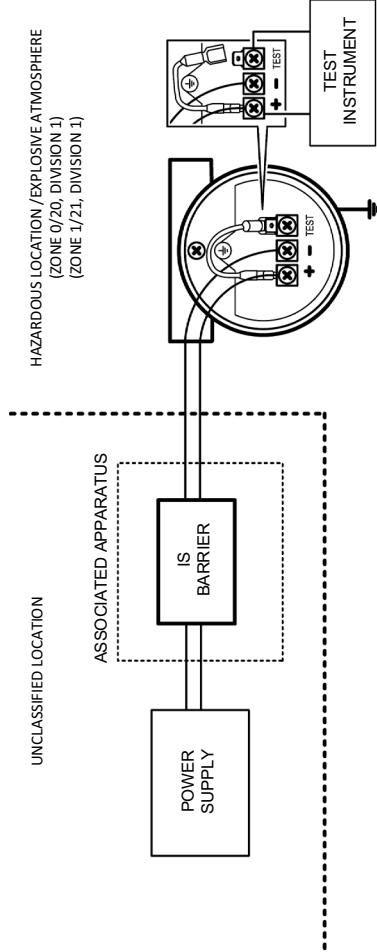
**SYSTEM CONTROL DRAWING - ROSEMOUNT 5408 SERIES
TRANSMITTERS WITH TEST TERMINAL OPTION**

- In hazardous locations/explosive atmospheres, this test can only be done for intrinsically safe installations.

The instrument used for loop current measurement must have correct intrinsically safe type of protection.

The combined entity of parameters of the transmitter and the test instrument must be compatible with the output parameters of the associated apparatus.

The cabling must be re-attached to the TEST terminal after completed test.



WARNING – Substitution of components may impair Intrinsic Safety.

INT - Potential electrostatic charging hazard or prevent ignition of flammable or combustible atmospheres, disconnect power before servicing.

INT - La substitution de composants peut compromettre la sécurité intrinsèque

INT - Risque potentiel de charge électrostatique

on of flammable or combustible atmospheres, disconnect power

INT – La substitution de composants peut compromettre la sécurité intrinsèque before servicing.

ENT – Risque potentiel de charge électrostatique

FM APPROVED PRODUCT
No revisions to this drawing
without prior Factory Mutual
Approval

ROSENBLUM		Rosenblum Inc., 140-145 Simonow Ave., Syosset, NY 11791	
EMERSON Process Management		System Control Drawing Rosenblum 5408 Series Title: [REDACTED] as per terminal option	
ESB-1100	REF ID:	5448	DATE:
11/24	PRINTED BY:	11/24	11/24
ESB-1100	PRINTED ON:	11/25	11/25
EA0	WEIGHT:	A3	A3
D000002-885		SHEET 6 of 6	



Product Certifications
00825-0200-4408, Rev AB
February 2017

Manufactured by

Emerson Automation Solutions

Rosemount Tank Radar AB

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