



Certificate of Compliance

Certificate: 1514653

Master Contract: 153280

Project: 70012338

Date Issued: February 18, 2015

Issued to: Rosemount Tank Radar AB
Gamlestadsvagen 18B
Goteborg, 402 51
SWEDEN
Attention: Dajana Prastalo

The products listed below are eligible to bear the CSA Mark shown

Issued by: *Hossein Saleh*
Hossein Saleh

PRODUCTS

CLASS - C225803 - PROCESS CONTROL EQUIPMENT - Intrinsically Safe and Non-Incendive Systems - For Hazardous Locations

CLASS - C225804 - PROCESS CONTROL EQUIPMENT-Intrinsically Safe, Entity - For Hazardous Locations-

For details related to rating, size, configuration, etc. reference should be made to the CSA Certification Record or the descriptive report.

CLASS 2258 03 - PROCESS CONTROL EQUIPMENT - Intrinsically Safe and Non-Incendive Systems - For Hazardous Locations

Class I, Division 1, Groups B, C and D; Class II, Groups E, F and G, Class III

5400 Series Radar Level Transmitter: model HART input rated 4-20mA, 42Vdc, model HART to MODBUS input rated 8-30Vdc, 1.2W max and model Fieldbus, input rated 32Vdc, 21mA, explosion-proof devices with intrinsically safe integral antenna, Maximum Ambient Temperature: 70°C for HART and HART to MODBUS models and 60°C for Fieldbus model, Temperature Code T4, Enclosure Type 4X, IP 66, IP 67. Maximum Working Pressure is 600 PSI; Dual Seal.

5300 Series Radar Level Transmitter: model HART input rated 4-20mA, 42Vdc, model HART to MODBUS input rated 8-30Vdc, 1.2W max and model Fieldbus, input rated 32Vdc, 21mA, explosion-proof devices with intrinsically safe integral probe, Maximum Ambient Temperature: 70°C for HART and HART to MODBUS models and 60°C for Fieldbus model, Temperature Code T4, Enclosure Type 4X, IP 66, IP 67. Maximum Working Pressure is 5000 PSI; Dual Seal.



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CLASS 2258 04 - PROCESS CONTROL EQUIPMENT - Intrinsically Safe Entity - For Hazardous Locations

Class I, Division I, Groups A, B, C, D

5400 Series Radar Level Transmitter: model HART input rated 4-20mA, 42Vdc, with entity parameters $U_{max}=30V$, $I_{max}=130mA$, $P_i=1W$, $L_i=0mH$, $C_i=7.26nF$; model Fieldbus input rated 21mA, 32Vdc, with entity parameters $U_{max}=30V$, $I_{max}=300mA$, $P_i=1.3W$, $L_i=0mH$, $C_i=0nF$; model FISCO input rated 21mA, 15Vdc, with entity parameters $U_{max}=17.5V$, $I_{max}=380mA$, $P_i=5.32W$, $L_i=0mH$, $C_i=0nF$. The above models are intrinsically safe when installed as per control drawing # 9150079-906. Maximum ambient temperature is 70°C for HART models and 60°C for Fieldbus and FISCO versions. Temperature Code T4. Enclosure Type 4X, IP 66, IP 67. Maximum Working Pressure is 600 PSI; Dual Seal.

5300 Series Radar Level Transmitter: model HART input rated 4-20mA, 42Vdc, with entity parameters $U_{max}=30V$, $I_{max}=130mA$, $P_i=1W$, $L_i=0mH$, $C_i=7.26nF$; model Fieldbus input rated 21mA, 32Vdc, with entity parameters $U_{max}=30V$, $I_{max}=300mA$, $P_i=1.3W$, $L_i=0mH$, $C_i=0nF$; model FISCO input rated 21mA, 15Vdc, with entity parameters $U_{max}=17.5V$, $I_{max}=380mA$, $P_i=5.32W$, $L_i=0mH$, $C_i=0nF$. The above models are intrinsically safe when installed as per control drawing # 9240030-937. Maximum ambient temperature is 70°C for HART models and 60°C for Fieldbus and FISCO versions. Temperature Code T4. Enclosure Type 4X, IP 66, IP 67. Maximum Working Pressure is 5000 PSI; Dual Seal.

APPLICABLE REQUIREMENTS

CSA C22.2 No. 0-M91	General Requirements - Canadian Electrical Code, Part II
CSA C22.2 No. 25-1966	Enclosures for Use in Class II, Groups E, F and G Hazardous Locations
CSA C22.2 No. 30-M1986	Explosion-Proof Enclosures for Use in Class I Hazardous Locations
CSA C22.2 No. 94-M91	Special Purpose Enclosures
CSA C22.2 No. 142-M1987	Process Control Equipment
CSA C22.2 No. 157-92	Intrinsically Safe and Non-Incendive Equipment for Use in Hazardous Locations
CAN/CSA C22.2 No. 60529:05	Degrees of protection provided by enclosures (IP Code)
ANSI/ISA 12.27.01-2003	Requirements for Process Sealing Between Electrical Systems and Flammable or Combustible Process Fluids.

MARKINGS

The manufacturer is required to apply the following markings:

- Products shall be marked with the markings specified by the particular product standard.
- Products certified for Canada shall have all Caution and Warning markings in both English and French.

Additional bilingual markings not covered by the product standard(s) may be required by the Authorities Having Jurisdiction. It is the responsibility of the manufacturer to provide and apply these additional markings, where applicable, in accordance with the requirements of those authorities.

Marking details appears on CSA accepted adhesive type label model Brady 428. Markings can also be etched and/or engraved on SST plate.



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All products

- Manufacturer name: “Rosemount” or CSA Master Contract Number “153280” adjacent to the CSA Mark in lieu of manufacturer name;
- Model number: as specified in the Products Section, above;
- Electrical rating: as specified in the Products Section, above;
- Temperature code: as specified in the Products Section, above;
- Ambient temperature rating: as specified in the Products Section, above;
- Hazardous locations designation: as specified in the Products Section, above;
- Enclosure type: as specified in the Products Section, above;
- Enclosure rating: as specified in the Products Section, above;
- Manufacturing date in MMY format or serial number traceable to month of manufacture;
- CSA Mark, as shown in the Certificate of Compliance.

The CLASS 2258 03 models will have the following additional markings:

- The words “Explosion Proof with Internally Intrinsically Safe Circuits” and the symbol “Exi” or “Exia”;
- The words: “Warning: The substitution of components may impair intrinsic safety” and “Avertissement: Substitution de composants peut compromettre la sécurité intrinsèque”.

The CLASS 2258 04 models will have the following additional markings:

- Control Drawing Numbers;
- The words “Intrinsically Safe” and “Sécurité Intrinsèque” and the symbol “Exi” or “Exia”;
- The words: “Warning: The substitution of components may impair intrinsic safety” and “Avertissement: Substitution de composants peut compromettre la sécurité intrinsèque”.

In addition to the above marking requirements, the products shall be marked with the following when Dual Seal Compliance is applicable:

- The term “Dual Seal”.
- Process Temperature Range.
- Process Pressure Range.



Supplement to Certificate of Compliance

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The products listed, including the latest revision described below, are eligible to be marked in accordance with the referenced Certificate.

Product Certification History

Project	Date	Description
70012338	Feb 18 2015	Update to Report 1514653 to cover revision of drawing 9240030-908.
70008402	Jul 16 2014	Update to report 1514653 to include a revised drawing and deletion of obsolete drawing.
2709145	Apr 25 2014	Update to report 1514653 to document revisions to drawings, addition of alternate component manufacturers, change of inductor values, addition of #HLS# option, as well as Thread connection option, addition of engraved markings option.
2435564	Jul 11 2011	Update to Report 1514653 to document revisions to drawings and optional marking for dual seal for models 5300 and 5400 Radar Level Gauges.
2392265	Mar 3 2011	Update to report 1514653 to revise drawings, add a new Filter Board and add alternate Hornet Fieldbus Communication Board.
2309917	Sep 10 2010	Update to report to include a new HART-to-MODBUS terminal block assembly and to include other drawing revisions.
2263539	Jan 21 2010	Update to Report 1514653 to cover drawing revisions.
2206545	Aug 13 2009	Update to Report 1514653 to cover drawing revisions and an alternative PMMDC certification drawing.
2155172	Apr 9 2009	Update to Report 1514653 to cover drawing revisions.
2093176	Oct 15 2008	Update report 1250250 to include Dual Seal Marking per ANSI/ISA 12.27.01; based upon the testing conducted at Rosemounts Category site.
2009019	Jun 17 2008	Update to revise the minimum ambient temperature rating, to add alterante boards and to cover drawings revision
1875241	Apr 13 2007	Update to add 5300 Series and drawings revision
1808275	Jul 6 2006	Update to add alternate safety components
1696166	Jul 22 2005	Update to revise the entity parameters for fieldbus model
1667621	May 11 2005	Update to add explosionproof Fieldbus version and antenna variants
1617328	Feb 18 2005	Update to cover addition the explosionproof version
1602434	Oct 8 2004	Update to include PMMK Board and Drawings Revision
1514653	May 27 2004	Intrinsically Safe models from 5400 Series - Original Certification