



Certificate of Compliance

Certificate: 70113546

Master Contract: 266178

Project: 70113546

Date Issued: 2017-04-11

Issued to: Emerson SRL Flow Solutions Group

**Str. Emerson, 4
Cluj-Napoca
Cluj, 400641
ROMANIA**

Attention: Ray Stengl

The products listed below are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US' for Canada and US or with adjacent indicator 'US' for US only or without either indicator for Canada only.



Issued by: *Jihan Gunaratne*
Jihan Gunaratne

PRODUCTS

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

CLASS - C225883 - PROCESS CONTROL EQUIPMENT-Intrinsically Safe and Non-Incendive-Systems-For Hazardous Locations-Certified to U.S. Standards

Class I, Division 1, Groups A, B, C and D:

Gas Density Transducer Model 7812 (with suffixes) and Gas Specific Gravity Transducer Model 3098 (with suffixes), input rated 33Vdc, 25mA max; intrinsically safe when connected per Installation Drawing No 78125022A; Maximum Ambient Temperature 85°C; Temperature Code T4; Maximum Working Pressure 250 bar.

Class I, Division 1, Groups A, B, C and D; Class I, Division 2, Groups A, B, C and D; Class II, Division 1, Groups E, F and G

Gas Density Meter Model GDM (with suffixes) and Gas Specific Gravity Meter Model SGM (with suffixes), Ambient Temperature Range of -40°C to +65°C; Temperature Code T6 with no display, T4 with display; Type



Certificate: 70113546

Master Contract: 266178

Project: 70113546

Date Issued: 2017-04-11

4X; IP 66/67. Intrinsically Safe with the following Entity Parameters. Intrinsically safe when connected per Installation Drawing No. EB-20023744(CSA-D-IS) with the following Entity Parameters:

V_{max} or $U_i = 30VDC$; I_{max} or $I_i = 484mA$; P_{max} or $P_i = 2.05W$; $C_i = 0pF$; $L_i = 0\mu H$

2 Wire Gas Density Meter Model GDM (with suffixes), Ambient Temperature Range of $-40^{\circ}C$ to $+75^{\circ}C$; Temperature Code T6; Type 4X; IP 66/67. Intrinsically safe when connected per Installation Drawing No. EB-20032690 (CSA-D-IS) with the following Entity Parameters:

V_{max} or $U_i = 28VDC$; I_{max} or $I_i = 93mA$; P_{max} or $P_i = 0.65W$; $C_i = 0pF$; $L_i = 0\mu H$

APPLICABLE REQUIREMENTS

CSA Standard C22.2 No 142-M1987	- Process Control Equipment
CSA Standard C22.2 No 157-M1992	- Intrinsically Safe and Non-Incendive Equipment for Use in Hazardous Locations
CSA Standard C22.2 No 213-2015	- Non-Incendive Electrical Equipment for Use in Class I, Division 2 Hazardous Locations
CAN/CSA C22.2 No. 60529-05	- Degrees of protection provided by enclosures (IP Code)
UL Standard 508, Seventeenth Edition	- Industrial Control Equipment
UL Standard 913, Seventh Edition	- Intrinsically Safe Apparatus and Associated Apparatus for use in Class I, II, III, Division 1, Hazardous (Classified) Locations.
ANSI/ISA-12.12.01-2015	- Non-Incendive Electrical Equipment for Use in Class I and II, Division 2 and Class III, Divisions 1 and 2 Hazardous (Classified) Locations

MARKINGS

See CSA Report.



Supplement to Certificate of Compliance

Certificate: 70113546

Master Contract: 266178 (266178)

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
70113546	2017-04-11	Update of Report 1172372 to include an addition of 2-Wire GDM Transmitter module to the GDM Meter and add alternate Stainless Steel Enclosure with Feedthrough assembly (Stainless Steel Orion Transmitter Housing).
2698708	Mar 8, 2014	Update to report 1172372 to correct temperature code rating and add alternative accepted adhesive labels for markings
2611402	Apr 12, 2013	Update of report 11722372 to cover the GDM and SGM transmitter models
2506217	Mar 22, 2012	Update of report 1172372 to cover new electronics design and drawings revision.
1887107	Mar 7, 2007	Update to cover minor product revision.
HISTORY		
1172372	Mar 14, 2001	Alternate construction to include the use of new terminals, alternate board and the use of a housing for the gas density meter type 7812 that is to be referenced as new type 3098
LR40796-14	Sep 27, 1997	Original Certification