



# Certificate of Compliance

**Certificate:** 1055868 (LR 44092)

**Master Contract:** 152450

**Project:** 2698318

**Date Issued:** March 27, 2014

**Issued to:** Micro Motion Incorporated

7070 Winchester Cir

Boulder, CO 80301

USA

Attention: Ray C. 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.*



*David Wood*

**Issued by:** David Wood

## **PRODUCTS**

**CLASS 2258 83** - PROCESS CONTROL EQUIPMENT-Intrinsically Safe and Non-Incendive - Systems-For Hazardous Locations-Certified to U.S. Standards

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

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

**Class I, Division 1, Groups C and D; Class II, Division 1 & 2, Groups E, F and G:**

**Class I, Zone 1, Group IIB**

**Transmitters; Series 1700, 2700 and 2750;** Input Rated 18 to 100 Vdc, 85 to 265 Vac, 50/60 Hz, 11W Max; Temperature Code T4A; Ambient -40°C to +60°C; Enclosure Type 4; Provides Non-Incendive and Intrinsically Safe Inputs / Outputs when connected as per Installation Instructions CSA-D-IS.



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

**Class I, Zone 2, Group IIC**

**Transmitters; Series 1700, 2700 and 2750;** Input Rated 18 to 100 Vdc, 85 to 265 Vac, 50/60 Hz, 11W Max; Temperature Code T5; Ambient -40°C to +60°C; Enclosure Type 4; Provides Non-Incendive and Intrinsically Safe Inputs / Outputs when connected as per Installation Instructions CSA-D-IS

**CLASS 2258 83- PROCESS CONTROL EQUIPMENT** - Intrinsically Safe and Non-Incendive Systems - For Hazardous Locations - To US Requirements

**Class I, Division 1, Groups C and D; Class II, Division 1 & 2, Groups E, F and G:**

**Class I, Zone 1, Group IIB; Class II, Zone 21:**

**Transmitters; Series 1700, 2700 and 2750;** Input Rated 18 to 100 Vdc, 85 to 265 Vac, 50/60 Hz, 11W Max; Temperature Code T4A; Ambient -40°C to +60°C; Enclosure Type 4; Provides Non-Incendive and Intrinsically Safe Inputs / Outputs when connected as per Installation Instructions CSA-D-IS.

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

**Class I, Zone 2, Group IIC; Class II, Zone 21**

**Transmitters; Series 1700, 2700 and 2750;** Input Rated 18 to 100 Vdc, 85 to 265 Vac, 50/60 Hz, 11W Max; Temperature Code T5; Ambient -40°C to +60°C; Enclosure Type 4; Provides Non-Incendive and Intrinsically Safe Inputs / Outputs when connected as per Installation Instructions CSA-D-IS.

#### **APPLICABLE REQUIREMENTS**

CSA Standard C22.2 No. 0-10 - General Requirements Canadian Electrical Code Part II.

CSA Standard C22.2 No. 0.4-M2004 (R2009) - Bonding and Grounding of Electrical Equipment (Protective Grounding)

CSA Standard C22.2 No. 0.5-M1982 (R2003) - Threaded Conduit Entries



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CSA Standard C22.2 No. 25-M1966 (R2009) - Enclosures for Use in Class II Groups E, F and G Hazardous Locations

CSA Standard C22.2 No. 30-M1986 (R2007) - Explosion-Proof Enclosures for Use in Class I Hazardous Locations

CSA Standard C22.2 No. 94-M1991 (R2006) - Special Purpose Enclosures

CSA Standard C22.2 No.142-M1987 (R2009) - Process Control Equipment

CSA Standard C22.2 No. 157-M1992 (R2006) - Intrinsically Safe and Non-Incendive Equipment for Use in Hazardous Locations

CSA Standard C22.2 No. 213-M1987 (R2013) - Non-Incendive Electrical Equipment for Use in Class I, Division 2 Hazardous Locations

UL Standard 50, 11th Edition - Enclosures for Electrical Equipment

UL Standard 508, 17th Edition - Industrial Control Equipment

UL Standard 913, 7th Edition - Intrinsically Safe Apparatus and Associated Apparatus for use in Class I, II, III, Division 1, Hazardous (Classified) Locations

UL Standard 1203, 4th Edition - Explosion Proof and Dust Ignition Proof Electrical Equipment for Use in Hazardous (Classified) Locations

ANSI/ISA-12.12.01-2012 – Non-Incendive Electrical Equipment for Use in Class I and II, Division 2 and Class III, Divisions 1 and 2 Hazardous (Classified) Locations

IEC 60079-27: 2005, 1st Edition - Electrical apparatus for explosive gas atmospheres – Part 27: Fieldbus Intrinsically Safe Concept (FISCO) and Fieldbus Non-Incendive Concept (FNICO)



## *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

<b>Project</b>	<b>Date</b>	<b>Description</b>
2698318	Mar 27, 2014	Update of Report 1055868 to include the addition of 2 new Display PCA's and a new Fieldbus PCA.
2629170	May 23, 2013	Update of Report 1055868 to include Class I, Zone markings.
2566735	Nov 7, 2012	Update report 1055868 to include a revision of the T-Code from T4A to T5 for the Div 2 versions of the 2700 Series Transmitters.
2559794	Sep 20, 2012	Update to report 1055868 to include release of new approval BOMS, Schematics and Assembly Drawings for Foundation Fieldbus PCA based upon the "Hornet" Fieldbus processing chip.
2494089	Jun 28, 2012	Update report 1055868 to include chemical compatibility testing regarding optional Stainless Steel and Aluminum Housing with cemented and un-cemented windowed stainless steel and aluminum cover.
2312625	Jun 3, 2010	Update of report 1055868 to include alternate Profibus Board
2202537	Sep 8, 2009	(EDM75: 1of1: CSA) Evaluation for possible update of report 1055868 to include addition of Alternate 3rd conduit seal to the transmitter housing; assumes only a paperwork review.
2050984	Oct 30, 2008	Addition of new factory (Mobrey Limited, Slough, UK) for tagging model 2750 Transmitters
1998766	Apr 23, 2008	Update report 1055868 to include new model (based on model 2700), alternate PCB construction not affecting IS protection, alternate seal material based on declaration and minor electronics cover revision.
1912820	Jul 29, 2007	Update report 1055868 to revise Fieldbus input parameter for Use in Div 2 and minor Bill of Materials changes to Intrinsically Safe components.
1862683	Mar 6, 2007	Update report 1055868 to include alternate components and new board layout to power supply and fieldbus boards (intrinsically safe).
1809012	Aug 15, 2006	Update to report 1055868 to include FISCO requirements per IEC 60079-27.
1714345	Oct 14, 2005	Addition of Model 800 Core Processor to previously approved transmitters.
1483634	Oct 31, 2003	Update to Report for Backlit display
1468202	Oct 20, 2003	Update to Report 1055868 to include alternate construction of Fieldbus and IS Output PCB's

#### **History**

1055868	2000/07/31	Original Certification.
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1127360	2000/11/30	Update to include NRTL/C, new cover and misc updates.
1167622	2001/02/01	Update to include revised control drawings and remote mount 9 wire.
1181679	2001/03/31	Update to Housing Display Cover to increase flame path.
1196995	2001/09/19	Update to include Revised Power Supply, New Feature Board, Alternate Terminal Board, Alternate Construction for the Insulator Disk, Alternate Construction of the Analog Board and Alternate Configuration for 1700/700 for Remote Mounting.
1232351	2001/10/31	Update to include New Config I/O Board and New Custody Transfer Board Option.
1258135	2001/11/23	Update to include Flame path reduction and subsequent testing on 1700/2700 Enclosure.
1280852	2002/01/31	Remote Mount Core Processor Update.
1297270	2002/02/28	Addition of CMF400 Documentation to file.
1390250	2002/12/12	Addition of alternate T2 Flyback transformer Manufacturer, alternate construction of Model 1700 and revised control drawings.
1399926	2003/03/27	Update to include revised ratings.
1483634	2003/10/15	Update 1055868 for alternate construction (Backlit display option).
1468202	2003/10/20	Update to Report 1055868 to include alternate construction of Fieldbus and IS Output PCB's.
1520106	2004/01/23	Update to 1055868 to include alternate diode manufacturers for Zener Diodes Z1 to Z4.