



CSA INTERNATIONAL

# Certificate of Compliance

**Certificate:** 1055868 (LR 44092)

**Master Contract:** 152450

**Project:** 1998766

**Date Issued:** 2008/04/23

**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'*



**Issued by:** Ron Wachowicz, C.E.T.

**Authorized by:** Patricia Pasemko, Operations Manager

## **PRODUCTS**

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

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

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

The 'C' and 'US' indicators adjacent to the CSA Mark signify that the product has been evaluated to the applicable CSA and ANSI/UL Standards, for use in Canada and the U.S., respectively. This 'US' indicator includes products eligible to bear the 'NRTL' indicator. NRTL, i.e. National Recognized Testing Laboratory, is a designation granted by the U.S. Occupational Safety and Health Administration (OSHA) to laboratories which have been recognized to perform certification to U.S. Standards.



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Transmitters; Series 1700, 2700 and 2750; Input Rated 18 to 100Vdc, 85 to 265Vac, 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.

### **APPLICABLE REQUIREMENTS**

CSA Standard C22.2 No. 0-M1991 - General Requirements Canadian Electrical Code Part II.

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

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

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

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

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

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-M1987 - 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 - ExplosionProof and DustIgnitionProof Electrical Equipment for Use in Hazardous (Classified) Locations

UL Standard 1604, 3rd Edition - Electrical Equipment for Use in Class I and II, Division 2, And Class III 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>
1998766	2008/04/23	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	2007/07/29	Update report 1055868 to revise Fieldbus input parameter for Use in Div 2 and minor Bill of Materials changes to Intrinsically Safe components.
1862683	2007/03/06	Update report 1055868 to include alternate components and new board layout to power supply and fieldbus boards (intrinsically safe).
1809012	2006/08/15	Update to report 1055868 to include FISCO requirements per IEC 60079-27.
1714345	2005/10/14	Addition of Model 800 Core Processor to previously approved transmitters.
1483634	2003/10/31	Update to Report for Backlit display
1468202	2003/10/20	Update to Report 1055868 to include alternate construction of Fieldbus and IS Output PCB's

### **History**

1055868	2000/07/31	Original Certification.
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.



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### **Product Certification History**

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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.