



# Certificate of Compliance

**Certificate:** 2570840 (044092\_0\_000)

**Master Contract:** 152450

**Project:** 70175177

**Date Issued:** 2018-08-24

**Issued to:** Micro Motion Incorporated  
7070 Winchester Cir  
Boulder, Colorado 80301  
USA

**Attention:** Carnation Ortega

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



**Issued by:** *Albert Jansen*  
Albert Jansen

## **PRODUCTS**

**CLASS - C225802 - PROCESS CONTROL EQUIPMENT**-For Hazardous Locations-

**CLASS - C225882 - PROCESS CONTROL EQUIPMENT**-For Hazardous Locations - Certified to US Standards

**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 C, and D; Class II, Division 1, Groups E, F and G**

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

CDM Exd Transmitter – Ambient Temperature Range of -40°C to +65°C; Temperature Code T6; Enclosure Type 4X; IP 66/67. Input rated 24VDC and 35mA Max.

CDM Exia Transmitter – Ambient Temperature Range of -40°C to +65°C; Temperature Code T6; Enclosure Type 4X; IP 66/67. Input rated 24VDC and 25mA Max.

GAS Transmitter – Ambient Temperature Range of -40°C to +65°C; Temperature Code T6; Enclosure Type 4X; IP 66/67. Input rated 24VDC and 25mA Max.



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FORK Transmitter – Ambient Temperature Range of -40°C to +65°C; Temperature Code T6; Enclosure Type 4X; IP 66/67. Input rated 24VDC and 25mA Max.

2CDM Exia Transmitter – Ambient Temperature Range of -40°C to +75°C; Temperature Code T6; Enclosure Type 4X. Input rated 28VDC and 93mA Max.

2GDM Gas Transmitter – Ambient Temperature Range of -40°C to +75°C; Temperature Code T6; Enclosure Type 4X. Input rated 28VDC and 93mA Max.

CDM100 Meter - Ambient Temperature Range of -40°C to +65°C; Temperature Code T6; Enclosure Type 4X; IP 66/67. Input rated 24VDC and 25mA Max.

FDM Meter - Ambient Temperature Range of -40°C to +65°C; Temperature Code T6; Enclosure Type 4X; IP 66/67. Input rated 24VDC and 25mA Max.

FVM Meter - Ambient Temperature Range of -40°C to +65°C; Temperature Code T6; Enclosure Type 4X; IP 66/67. Input rated 24VDC and 25mA Max.

HFVM Meter - Ambient Temperature Range of -40°C to +65°C; Temperature Code T6; Enclosure Type 4X; IP 66/67. Input rated 24VDC and 25mA Max.



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**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 - To US Requirements

**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**

CDM Exia Transmitter – Ambient Temperature Range of -40°C to +65°C; Temperature Code T4; Type 4X; IP 66/67. Intrinsically Safe with the following Entity Parameters as per drawing CSA-D-IS;

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

2CDM Exia Transmitter – Ambient Temperature Range of -40°C to +75°C; Temperature Code T6; Type 4X. Intrinsically Safe with the following Entity Parameters as per drawing CSA-D-IS;

$V_{max}$  or  $U_i$  = 28VDC       $C_i$  = 0nF  
 $I_{max}$  or  $I_i$  = 93mA       $L_i$  = 0mH  
 $P_{max}$  or  $P_i$  = 0.65W

GAS Transmitter – Ambient Temperature Range of -40°C to +65°C; Temperature Code T4; Type 4X; IP 66/67. Intrinsically Safe with the following Entity Parameters as per drawing CSA-D-IS;

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

2GDM Gas Transmitter – Ambient Temperature Range of -40°C to +75°C; Temperature Code T6; Type 4X. Intrinsically Safe with the following Entity Parameters as per drawing CSA-D-IS;

$V_{max}$  or  $U_i$  = 28VDC       $C_i$  = 0nF  
 $I_{max}$  or  $I_i$  = 93mA       $L_i$  = 0mH  
 $P_{max}$  or  $P_i$  = 0.65W

CDM100 Exia Meter – Ambient Temperature Range of -40°C to +65°C; Temperature Code T4; Type 4X; IP 66/67. Intrinsically Safe with the following Entity Parameters as per drawing CSA-D-IS;

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

CDM100 Exia Meter (with Integral 2CDM Transmitter) – Ambient Temperature Range of -40°C to +75°C; Temperature Code T6; Type 4X. Intrinsically Safe with the following Entity Parameters as per drawing CSA-D-IS;

$V_{max}$  or  $U_i$  = 28VDC       $C_i$  = 0nF  
 $I_{max}$  or  $I_i$  = 93mA       $L_i$  = 0mH  
 $P_{max}$  or  $P_i$  = 0.65W



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CDM100 Exia meter (with remote 2CDM Transmitter) – Ambient Temperature Range of -40°C to +75°C;  
Temperature Code T6; Type 4X. Intrinsically Safe with the following Entity Parameters as per drawing CSA-D-  
IS;

$V_{max}$  or  $U_i = 28VDC$   
 $I_{max}$  or  $I_i = 93mA$   
 $P_{max}$  or  $P_i = 0.65W$

$C_i = 0nF$   
 $L_i = 0mH$



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**APPLICABLE REQUIREMENTS**

CSA Standard C22.2 No 0-10	General Requirements - Canadian Electrical Code Part II
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 94-M1991	Special Purpose Enclosures
CSA Standard C22.2 No 142-M1987	Process Control Equipment
CSA Standard C22.2 No 30-M1986	Explosion-Proof Enclosures for Use in Class I Hazardous Locations Industrial Products
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
CAN/CSA C22.2 No. 60529-05	Degrees of protection provided by enclosures (IP Code)
UL Standard 50, Eleventh Edition	Enclosures for Electrical Equipment
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.
UL Standard 1203, Fourth Edition	Explosion-Proof and Dust-Ignition-Proof Electrical Equipment for Use in Hazardous (Classified) Locations
ANSI/ISA-12.12.01-2011	Non-Incendive Electrical Equipment for Use in Class I and II, Division 2 and Class III, Divisions 1 and 2 Hazardous (Classified) Locations
ANSI/IEC 60529:2004	Degrees of Protection Provided by Enclosures (IP Code)



## *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>
70175177	2018-08-24	Update to Report 2570840 to include the optional CDM100 Remote Transmitter Configuration as an alternate construction. Increase Type 4 enclosure rating to Type 4X.
70070305	2016-05-18	Update of report 2570840 to include new models 2CDM, 2GDM Exia and CDM100 Exia Meter (with Integral 2CDM Transmitter) Transmitters based on CSA witness testing conducted under CSA Project 70046151.
70062743	2016-04-19	Update of Report 2570840 to include an addition of alternate Stainless Steel Enclosure with Feedthrough assembly (Stainless Steel Orion Transmitter Housing).
2602012	2013-04-04	Update of report 2570840 to include new models based on CSA Report 1081937.
2570840	2013-01-25	New Certification for CDM, GAS and FORK Transmitter Modules for various methods of protection.