



Certificate of Compliance

Certificate: 1173493 **Master Contract:** 152450 (044092_0_000)
Project: 70087456 **Date Issued:** 2016-07-21
Issued to: Micro Motion Incorporated
7070 Winchester Cir
Boulder, Colorado 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.



Issued by: *Jihan Gunaratne*
Jihan Gunaratne

PRODUCTS

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

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

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

F Series Sensors; Non-Incendive: Maximum Ambient +60°C; Temperature Code T6. Models F025, F050, F100, F200, F300, F025 (A, B, C or E), F050 (A, B, C or E), F100 (A, B, C or E), F300 (A, B, C or E), and F100 (P, J); Dual Seal. See MWP table for respective pressure ratings.

Note: F Series Sensors; Ambient Temperature range (-40 to +65°C) when used with integral 5700 transmitter.

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



Certificate: 1173493
Project: 70087456

Master Contract: 152450
Date Issued: 2016-07-21

F Series Sensors; Intrinsically Safe: Ambient of -40 to +60°C; Temperature Code T3A. Models F025, F050, F100, F200, F300, F025 (A, B, C or E), F050 (A, B, C or E), F100 (A, B, C or E), F300 (A, B, C or E), and F100 (P, J); Dual Seal. See MWP table for respective pressure ratings. Sensors are intrinsically safe when connected per installation instructions Type CSA-D-IS.

Note: F Series Sensors; Ambient Temperature range (-40 to +65°C) when used with integral 5700 transmitter.

Model	MWP (PSI)
Primary Seal	
F025H, B	2160
F025P, S, A	2320
F050S, A	1500
F050H, B	2160
F050P	5000
F100S, A	1450
F100H, B	2160
F100J	5180
F100P	6000
F100P (With Rupture Disc)	6250
F200S	1450
F200H	2160
F300S	1450
F300H	2220
Secondary Seal	
MVD Feed-Thru	6000
Splined Feed-Thru	6000



Certificate: 1173493
Project: 70087456

Master Contract: 152450
Date Issued: 2016-07-21

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. 30-M1986 - Explosion-Proof Enclosures for Use in Class I Hazardous Locations.
- CSA Standard C22.2 No. 94-M91 - 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 50, 11th Edition - Enclosures for Electrical Equipment.
- UL 508, 17th Edition - Industrial Control Equipment.
- UL 913, 7th Edition - Intrinsically Safe Apparatus and Associated Apparatus for use in Class I, II, III, Division 1, Hazardous (Classified) Locations.
- UL 1203, 4th Edition - Explosion-Proof and Dust-Ignition-Proof Electrical Equipment for Use in Hazardous (Classified) Locations.
- ANSI/ISA-12.12.01-2013 - Nonincendive Electrical Equipment for Use in Class I and II, Division 2 and Class III, Divisions 1 and 2 Hazardous (Classified) Locations.
- ANSI/ISA 12.27.01: 2011 - Requirements for Process Sealing Between Electrical Systems and Flammable or Combustible Process Fluids.



Supplement to Certificate of Compliance

Certificate: 1173493

Master Contract: 152450 (044092_0_000)

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
70087456	2016-07-21	Update to CSA Report 1173493 to include Accepted Adhesive Label tested under CSA Project 70072606 and change Enclosure Type 3R to Type 4X. Also Added Ambient Temperature Range when used with the integral 5700 transmitter (-40C to +65C) in the marking section.
70077136	2016-06-21	Update to CSA Report 1173493 to include new Drive Coil Parameters and a Dual Seal rating pressure for Models F100P & F100J based off of acceptance of Witness Testing Results under CSA Project 70077135.
70044893	2015-12-14	Possible Update to CSA Report 1173493 to add Dual Seal Testing on Sensors F100 P/J based off the testing of the F100P. Price includes the cost associated with performing Burst Pressure Testing in accordance with ANSI/ISA 12.27.01-2011 and updating the CSA Report and associated Certificates. Should Testing fail, the Project Scope will be re-evaluated and additional funding will be requested.
70041487	2015-09-02	Update to Report 1173493 to include the addition of the Models F100P and F100J Flow Sensors as NI: C11 Dv2 Gps ABCDEFG and IS: C11 Dv1 Gps CDEFG.
2689422	2014-06-24	Update to Report 1173493 to include alternate adhesive epoxy for affixing SS metal labels onto the F Sensors painted enclosure surface; based on testing conducted under project 152450-2668081.
2566737	2012-11-07	Update report 1173493 to include a revision of the T-Code from T3A to T6 for the Div 2 versions of the F Series Sensors.
2401567	2011-04-18	Update of Report 1173493 to include alternate construction of heat extension.
2223396	2009-10-14	Update report 1173493 for F Series to include Dual Seal Marking; Evaluation and Testing as per Witness testing performed under project 152450-2207573.
1934634	2007-07-27	Update report 1173493 to include new sensor Model PSC015.
1899115	2007-04-16	Update report 1173493 to include alternate drive and pickoff coils for the F025 (A, B, C or E), F050 (A, B, C or E), F100 (A, B, C or E) sensors.
1791875	2006-05-25	Update to report 1173493 to include new sensors and option codes.
1742202	2006-01-11	Update to report 1173493 to include revised drive and pick off coil drawings.
1668028	2005-06-13	Addition of Model F300A to Certificate 1173493



Certificate: 1173493
Project: 70087456

Master Contract: 152450
Date Issued: 2016-07-21

1512060	2004-01-21	Update to 1173493 to include alternate construction of F200 pickoff coil.
1458231	2003-08-08	Update to 1173493 to include addition of Model F300.
1440008	2003-06-10	SERIES "F" SENSORS - ALT. CONSTRUCTION OF F SERIES; UPDATE 1173493

HISTORY

1405118	2003-02-11	Update to 1173493 to include alternate construction with revised Figures and Report corrections.
1380777	2002-11-28	Update to 1173493 to remove references to Heraeus RTD.
1362371	2002-09-27	Update to 1173493 to include optional Aluminum 700 processor enclosure.
1322255	2002-06-15	Update to report 1173493 to include revised ambient temperature marking.
1305545	2002-04-19	Update to report 1173493 to include alternate construction.
1232348	2001-08-30	Update to report 1173493 to include file drawings for revised Heat Extender Length.
1173493	2001-04-30	Move existing certification of F sensors from certificate #1010411(LR 44092-111 Ed. 6) to this certificate. Addition of Certification to US Requirements.