CSA INTERNATIONAL

Certificate of Compliance

Certificate: 1116703 (LR 44092) **Master Contract:** 152450

Project: 1297271 (Edition 27) **Date Issued:** February 28, 2002

Issued to: **Micro Motion**
7070 Winchester Circle
Boulder, CO 80301
USA

The products listed below are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US' and/or adjacent indicator 'NRTL/C'

C US OR NRTL/C

Issued by: Marty Klaassen, P.Eng
Certification Specialist

Authorized by: John Verwey, P.Eng
Operations Manager

CLASS

2258 02 - PROCESS CONTROL EQUIPMENT - For Hazardous Locations

2258 82 - PROCESS CONTROL EQUIPMENT - For Hazardous Locations - To US Requirements

PRODUCTS

Class I, Groups C and D; Class II, Groups E, F and G: Enclosure 4

Model RFT 9739E (Enclosure 4); Remote Flow Transmitter, input 115/230V ac, 50/60Hz, 30VA max, or 12-30V dc, 30VA max (different units); outputs 30V max, 50mA max.

Class I, Division 2, Groups A, B, C and D

Model RFT 9739E and Model RFT9739D (Enclosure 4);input 115/230V ac, 50/60Hz, 30VA max, or 12-30V dc, 30VA max (different units); outputs 30V max, 50mA max.

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 recognised to perform certification to U.S. Standards.

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CLASS

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

2258 83 - PROCESS CONTROL EQUIPMENT - Intrinsically Safe and Non-Incendive Systems - For Hazardous Locations - to US Requirements.

PRODUCTS

Class I, Div. 1, Groups C and D; Class II, Groups E, F and G; and Class I, Div. 2, Groups A, B, C and D; Enclosure 4

Model RFT 9739E, Remote Flow Transmitters, input 115/230V ac, 50/60Hz, 30VA max or 12-30V dc, 30VA max (different units); outputs 30V max, 50mA max; providing intrinsically safe circuits for remote flow sensors. Sensors are intrinsically safe when connected as per installation instructions Type CSA-D-IS.

Class I, Div. 2, Groups A,B,C and D; Enclosure 4

Model RFT 9739D, Model RFT9739R (Rackmount for Ordinary Location); input 115/230V ac, 50/60Hz, 30VA max or 12-30V dc, 30VA max (different units); outputs 30V max, 50mA max; providing intrinsically safe circuits for remote flow sensors. Sensors are intrinsically safe when connected as per installation instructions Type CSA-D-IS.

Note: Remote flow transmitter RFT9739R is for installation in a suitable enclosure, acceptable to the local inspection authority.

APPLICABLE REQUIREMENTS

CSA Standard C22.2 No 0-M1991	-	General Requirements - Canadian Electrical Code Part II.
0.4-M1982	-	Bonding and Grounding of Electrical Equipment (Protective Grounding).
0.5-M1992	-	Threaded Conduit Entries
25-M1966	-	Enclosures for Use in Class II Groups E, F and G Hazardous Locations.
94-M1991	-	Special Purpose Enclosures.
142-M1987	-	Process Control Equipment.
157-M1992	-	Intrinsically Safe and Non-Incendive Equipment for Use in Hazardous Locations.
213-M1987	-	Non-Incendive Electrical Equipment for Use in Class I, Division 2 Hazardous Locations.
UL 50, Eleventh Edition	-	Enclosures for Electrical Equipment
UL 508, Seventeenth Edition	-	Industrial Control Equipment.
UL 913, Fifth Edition	-	Intrinsically Safe Apparatus and Associated Apparatus for use in Class I, II, III, Division 1, Hazardous (Classified) Locations.
UL 1203, Second Edition	-	Explosion-Proof and Dust-Ignition-Proof Electrical Equipment for Use in Hazardous (Classified) Locations.
UL 1604, Third Edition	-	Electrical Equipment for Use in Class I and II, Division 2, And Class III Hazardous (Classified) Locations.

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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

Project	Date	Description
LR 44092-102	February 28, 1994	Report correction and update
LR 44092-103	March 9, 1994	Covers use of flow sensor Model D38
LR 44092-104	July 7, 1994	Revised drawings and addition of alternative rackmount version (RFT 9739R)
LR 44092-109	December 20, 1994	Covers revisions to report drawings
LR 44092-113	December 11, 1995	Covers alternate barrier fuses, display version (RFT 9739D) and alternate Ex-Proof and Rack Mount versions
LR 44092-114	February 16, 1996	Alternate Barrier Board parts list, board and trace layouts
LR 44092-117	December 16, 1996	Addition of Model CMF010X sensor, enclosure designation change (3 to 3R) and minor report clarifications
LR 44092-118	January 27, 1997	Alternate Pick-Off and Drive Coils for CMF200X and 300X
LR 44092-115	January 23, 1997	Minor revisions to Barrier Board Layout and alternate Pick-Off Coil
LR 44092-125	September 17, 1997	Change transformer specs for RFT9739 flyback TX. New P/N Renco RL-5772 replaces Renco RL-5752 and Western Magnetics WX-1079.
1116703	August 11, 2000	Revised Combo Board (Report Re-Issued as 1116703)
1200869	May 2, 2001	Alternative headers for connectors CN1, CN2; Revise RC snubber by adding Diode D13 and removing resistor R1, capacitor C3
1206277	May 31, 2001	Removal of Sensor Description and Testing to separate certificates and addition of Certification to US Requirements. Update of Drawing Set for European EMC compliance
1297271	February 28, 2002	Addition of CMF 400 Sensor CSA-D-IS Documentation