



Member of the FM Global Group

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CERTIFICATE OF COMPLIANCE

HAZARDOUS LOCATION ELECTRICAL EQUIPMENT PER CANADIAN REQUIREMENTS

This certificate is issued for the following equipment:

FSV430abcdefgh – Vortex Flow Transmitter – Integral Sensor – Dual Seal

XP-IS/ I/ 1/ BCD / T6 Ta = -40°C to +75°C; Type 4X, IP66, IP67
I / 1 / AEx d ia IIC / T6 Ta = -40°C to +75°C; Type 4X, IP66, IP67
DIP / II, III / 1/ EFG / T6 Ta = -40°C to +75°C; IP66, IP67, Type 4X

a = Explosion Protection Certification; F1 or F9.

b = System Design; C1, or C2.

c = Process Connection Type / Meter Size / Connection Size: W025R0, W040R0, W050R0, W080R0, W100R0, W150R0, F015R0, F015R2, F015R4, F025R0, F025R2, F025R3, F040R0, F040R1, F040R3, F050R0, F050R2, F050R3, F080R0, F080R1, F080R3, F100R0, F100R2, F100R4, F150R0, F150R2, F150R3, F200R0, F200R1, F200R2, F250R0, F250R1, or F300R0.

d = Pressure Rating; D1, D2, D3, D4, D5, D6, D7, E1, E2, E3, A1, A3, A6, A7, A8, A9, J0, J1, J2, J3, or J4.

e = Temperature Range of Measuring Medium; A1, B1, or C1.

f = Housing Material / Cable Glands; B1, or T1.

g = Output Signal; H1, H5 or M4.

h = Additional Options; (Any of the following) C*, CG*, EG*, G1, G2, G4, L1, L2, M*, N*, P*, R5, S1, SM1, SM2, SM3, SM4, SM5, SM6. SM7, SP0, SP1, SP2, SP3, I1, I2, I3, TC1, TCC, TCS, TCZ, TA4, TA5, U1, U2, NG*, NS*, and/or NL*.

* = Any single character – Not relevant to safety.

Special Conditions of Use:

1. Consult the manufacturer if dimensional information on the flameproof joints is necessary.

FSV430abcdefgh – Vortex Flow Transmitter – Remote Sensor – Dual Seal

XP/ I/ 1/ BCD / T6 Ta = -40°C to +75°C; Type 4X, IP66, IP67
I / 1 / AEx d ia IIC / T6 Ta = -40°C to +75°C; Type 4X, IP66, IP67
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F050R0, F050R2, F050R3, F080R0, F080R1, F080R3, F100R0, F100R2, F100R4, F150R0, F150R2, F150R3, F200R0, F200R1, F200R2, F250R0, F250R1, or F300R0.

d = Pressure Rating; D1, D2, D3, D4, D5, D6, D7, E1, E2, E3, A1, A3, A6, A7, A8, A9, J0, J1, J2, J3, or J4.

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g = Output Signal; H1, H5 or M4.

h = Additional Options; (Any of the following) B1, C*, CG*, EG*, G1, G2, G4, L1, L2, M*, N*, P*, R5, S1, SC*, SM1, SM2, SM3, SM4, SM5, SM6, SM7, SP0, SP1, SP2, SP3, I1, I2, I3, TC1, TCC, TCS or TCZ, TA4, TA5, U1, U2, NG*, NS* and/or NL*.

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b = System Design; C1, or C2.

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d = Pressure Rating; D1, D2, D3, D4, D5, D6, D7, E1, E2, E3, A1, A3, A6, A7, A8, or A9, J0, J1, J2, J3, J4.

e = Temperature Range of Measuring Medium; A1, B1, or C1.

f = Housing Material / Cable Glands; B1, or T1.

g = Output Signal; H1, H5.

h = Additional Options; (Any of the following) C*, CG*, EG*, G1, G2, G4, L1, L2, M*, N*, P*, R5, S1, SM1, SM2, SM3, SM4, SM5, SM6, SM7, SP0, SP1, SP2, SP3, I1, I2, I3, TC1, TCC, TCS, TCZ TA4, TA5, U1, U2, NG*, NS* and/or NL*.

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a = Explosion Protection Certification; F3, F4, F8, or F9

b = System Design; R1, or R2

c = Process Connection Type / Meter Size / Connection Size; F015R0, F020R0, F025R0, F032R0, F040R0, F050R0, F080R0, F100R0, F150R0, F200R0, F300R0, or F400R0

d = Pressure Rating; D1, D2, D3, D4, D5, D6, D7, E1, E2, E3, A1, A3, A6, A7, A8, A9, J0, J1, J2, J3, or J4

e = Temperature Range of Measuring Medium; A1, B1, or C1

f = Housing Material / Cable Glands; A1, B1, S1, or T1

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Special Conditions of Use:

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FSV450abcdefgh – Intelligent Vortex Flow Transmitter – Integral Sensor – Dual Seal

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 DIP / II, III / 1/EFG / T6 Ta = -40°C to +75°C; IP66, IP67, Type 4X

a = Explosion Protection Certification; F1 or F9.

b = System Design; C1, or C2.

c = Process Connection Type / Meter Size / Connection Size; W025R0, W040R0, W050R0, W080R0, W100R0, W150R0, F015R0, F015R2, F015R4, F025R0, F025R2, F025R3, F040R0, F040R1, F040R3, F050R0, F050R2, F050R3, F080R0, F080R1, F080R3, F100R0, F100R2, F100R4, F150R0, F150R2, F150R3, F200R0, F200R1, F200R2, F250R0, F250R1, or F300R0.

d = Pressure Rating; D1, D2, D3, D4, D5, D6, D7, E1, E2, E3, A1, A3, A6, A7, A8, A9, J0, J1, J2, J3, or J4.

e = Temperature Range of Measuring Medium; A1, B1, or C1.

f = Housing Material / Cable Glands; B1 or T1.

g = Output Signal; H1, H5.

h = Additional Options; (Any of the following) C*, CG*, EG*, G1, G2, G4, L1, L2, M*, N*, P*, R5, RR, S1, SM1, SM2, SM3, SM4, SM5, SM6, SM7, SP0, SP1, SP2, SP3, I1, I2, I3, TC1, TCC, TCS, TCZ, TA4, TA5, U1, U2, NG*, NS*, and/or NL*.

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a = Explosion Protection Certification; F3, F4, F8 or F9

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c = Process Connection Type / Meter Size / Connection Size; W025R0, W040R0, W050R0, W080R0, W100R0, W150R0, F015R0, F015R2, F015R4, F025R0, F025R2, F025R3, F040R0, F040R1, F040R3, F050R0, F050R2, F050R3, F080R0, F080R1, F080R3, F100R0, F100R2, F100R4, F150R0, F150R2, F150R3, F200R0, F200R1, F200R2, F250R0, F250R1, or F300R0.

d = Pressure Rating; D1, D2, D3, D4, D5, D6, D7, E1, E2, E3, A1, A3, A6, A7, A8, A9, J0, J1, J2, J3, or J4.

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Equipment Ratings:

Explosionproof with intrinsically safe sensor for Class I, Division 1, Groups B, C and D; for dust ignitionproof Class II and III, Division 1, Groups E, F and G hazardous locations; flameproof and intrinsic safe outputs for Class I, Zone 1, Ex d ia IIC T6 Gb, Ta = -40°C to +75°C; indoor and outdoor Type 4X, IP66, IP67; for use in Canada.

Suitable for indoor and outdoor locations IP66/67 and Type 4X.

Dual Seal in accordance with ANSI/ISA 12.27.01

To verify the availability of the Approved product, please refer to www.approvalguide.com

FM Approved for:

ABB Engineering (Shanghai) Ltd
Shanghai, China

To verify the availability of the Approved product, please refer to www.approvalguide.com

This certifies that the equipment described has been found to comply with the following Approval Standards and other documents:

CSA C22.2 No. 0.4	2009
CSA C22.2 No. 0.5	2012
CSA C22.2 No. 25	2009
CSA C22.2 No. 30	2007
CSA C22.2 No. 94	2011
CSA C22.2 No. 142	2004
CAN C22.2 No.157	2006
CSA C22.2 No. 1010.1	2004
CAN/CSA E60079-0	2011
CAN/CSA E60079-1	2011
CAN/CSA E60079-11	2011
ANSI/ISA 12.27.01	2003
CAN/CSA C22.2 No.	2010

Original Project ID: 3048489C

Approval Granted: March 4, 2014

Subsequent Revision Reports / Date Approval Amended

Report Number	Date	Report Number	Date
3054654	April 5, 2016		

FM Approvals LLC



J.E. Marquedant
Group Manager, Electrical

5 April 2016

Date

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