



Member of the FM Global Group

FM Approvals
1151 Boston Providence Turnpike
P.O. Box 9102 Norwood, MA 02062 USA
T: 781 762 4300 F: 781-762-9375 www.fmaprovals.com

CERTIFICATE OF COMPLIANCE

HAZARDOUS (CLASSIFIED) LOCATION ELECTRICAL EQUIPMENT

This certificate is issued for the following equipment:

640i-a-FM-b-c-d-e-f-g-h-0-i-i-i. Insertion Thermal Mass Flowmeter.

XP/I/1/BCD/T3C Ta = -40°C to +60°C; Type 4X

a = Multivariable VT or VTP.

b = Probe L06, L09, L13, L18, L24, L36, L48, L(*) or L(*) M5. *Specify probe length (max 48 inches).

c = Mounting M0, M1, M1-M2(*), M3, M4(*), M8(*), M9 or M15(*). *Specify pipe O.D.

d = Enclosure E2 or E4(*). *Specify cable length.

e = Power P2 or P3.

f = Output V4 or V6*. *VTP only.

g = Display DD or NR.

h = Pressure MP1*, MP2*, MP3*, MP4* or N/A†. *VTP only. †For VT or E4.

i = Gas 0, 1, 1A, 2, 2A, 3, 4, 4A, 6, 6A, 7, 7A, 8, 8A, 10, 10A, 11, 12, 12A or 99.

780i-a-FM-b-c-d-e-f-g-0-h-h-h. In-line Thermal Mass Flowmeter.

XP/I/1/BCD/T3C Ta = -40°C to +60°C; Type 4X

a = Multivariable VT or VTP.

b = Flow Body N2, N3, N4, N5, N6, N7, N8, N9, N10, F2, F3, F4, F5, F6, F7, F8, F9, F10, FD4, FD5, FD6, FD7, FD8, FD9 or FD10.

c = Enclosure E2 or E4(*). *Specify cable length.

d = Power P2 or P3.

e = Output V4 or V6*. *VTP only.

f = Display DD or NR.

g = Pressure MP1*, MP2*, MP3*, MP4* or N/A†. *VTP only. †For VT or E4.

h = Gas 0, 1, 1A, 2, 2A, 3, 4, 4A, 6, 6A, 7, 7A, 8, 8A, 10, 10A, 11, 12, 12A or 99.

Equipment Ratings:

Explosionproof for Class I, Division 1, Groups B, C and D T3C hazardous (classified) locations, indoors and outdoors (Type 4X). Ambient temperature range is -40°C to +60°C.

FM Approved for:

Sierra Instruments Inc.
Monterey, CA, USA



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

Class 3600	2011
Class 3615	2006
Class 3810	2005
ANSI/NEMA 250	1991

Original Project ID: 3040602

Approval Granted: December 28, 2012

Subsequent Revision Reports / Date Approval Amended

Report Number	Date	Report Number	Date
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FM Approvals LLC

J. E. Marquedant
Group Manager, Electrical

28 December 2012

Date