



Member of the FM Global Group

FM Approvals  
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# CERTIFICATE OF COMPLIANCE

## HAZARDOUS (CLASSIFIED) LOCATION ELECTRICAL EQUIPMENT

This certificate is issued for the following equipment:

### **640i-a-2-b-c-d-e-f-g-h-0-i-i-i-j. Insertion Thermal Mass Flowmeter.**

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.

j = Digital Communication: DP1\*, DP2\*, FF\*, MB\*, HART\* or Blank. \*only available in P2 Power option.

### **Special Conditions of Use**

*A suitably certified conduit sealing device is required within 13 inches of the enclosure for probes longer than 13 inches.*

### **780i-a-2-b-c-d-e-f-g-0-h-h-h-i. In-line Thermal Mass Flowmeter.**

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, FD6, FD7, FD8, FD9, FD10, GD4, GD5, GD6, GD7, GD8, GD9 or GD10.

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.

i = Digital Communication: DP1\*, DP2\*, FF\*, MB\*, HART\* or Blank. \*only available in P2 Power option.

### **Special Conditions of Use**

*A suitably certified conduit sealing device is required within 13 inches of the enclosure for probes longer than 13 inches.*



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### Equipment Ratings:

Explosionproof for Class I, Division 1, Groups B, C and D hazardous (classified) locations, indoors and outdoors (Type 4X) for use in an ambient temperature range of -40°C to +60°C with temperature class marking of T3C.

### FM Approved for:

Sierra Instruments Inc.  
Monterey, California, USA



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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

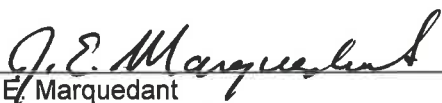
Original Project ID: 3040602

Approval Granted: December 28, 2012

Subsequent Revision Reports / Date Approval Amended

Report Number	Date	Report Number	Date
3048285	April 25, 2014		
3052971	August 8, 2014		
140723	October 1, 2014		

FM Approvals LLC

  
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 J.E. Marquedant  
 Manager, Electrical Systems

1 October 2014  
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 Date