

CERTIFICATE OF CONFORMITY

1. HAZARDOUS (CLASSIFIED) LOCATION ELECTRICAL EQUIPMENT PER US REQUIREMENTS

2. **Certificate No:** FM22US0026
3. **Equipment:** InnovaMass 240S and InnovaMass 241S
(Type Reference and Name) Multivariable Mass Vortex Flowmeters
4. **Name of Listing Company:** Sierra Instruments Inc
5. **Address of Listing Company:** 20 Ryan Ranch Road, Ste 109, Monterey, California
93940, United States of America

6. The examination and test results are recorded in confidential report number:

PR459655 dated 29th July 2022

7. FM Approvals LLC, certifies that the equipment described has been found to comply with the following Approval standards and other documents:

FM 3600:2022, FM 3615:2022, FM 3616:2022, FM 3810:2021, NEMA 250:2018, ANSI/IEC 60529:2020,
ANSI/UL 61010-1:2004

8. If the sign 'X' is placed after the certificate number, it indicates that the equipment is subject to specific conditions of use specified in the schedule to this certificate.

9. This certificate relates to the design, examination and testing of the products specified herein. The FM Approvals surveillance audit program has further determined that the manufacturing processes and quality control procedures in place are satisfactory to manufacture the product as examined, tested and Approved.

10. Equipment Ratings:

Explosionproof for Class I, Division 1, Groups B, C and D, T6; Dust-ignitionproof for Class II, Division 1, Groups E, F and G, T6; Class III, Division 1, T6 hazardous (classified) locations, indoors and outdoors (Type 4X, IP66) with an ambient temperature rating of -40°C to +60°C.

11. The marking of the equipment shall include:

Class I, Division 1, Groups B, C, D T6;
Class II / III, Division 1, Groups E, F, G T6;
Type 4X, IP66 ; Ta = -40°C to +60°C;

Certificate issued by:

J.E. Marquedant

J.E. Marquedant
VP, Manager - Electrical Systems

03/23/2026

Date

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

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FM Approvals LLC. One Technology Way, Norwood, MA 02062 USA

T: +1 (1) 781 762 4300 F: +1 (1) 781 762 9375 E-mail: information@fmapprovals.com www.fmapprovals.com

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12. Description of Equipment:

General – Sierra Instrument's Multivariable Mass Vortex Flowmeters InnovaMass 240S and InnovaMass 241S utilize three primary sensing elements (a vortex shedding velocity sensor, an RTD temperature sensor and a solid-state pressure transducer) to measure the mass flow rate of gases, liquids and steam. The meters are available for in-line (InnovaMass 240S) and Insertion (InnovaMass 241S) applications. The InnovaMass 240S, in-line meter can be configured for pipe sizes from ½ inch to 12 inches while the Model 241S insertion meter can be installed in any pipe two inches in diameter or greater. The InnovaMass 240S in-line meter incorporates a new split adapter design which allows the pressure transducer to be field serviceable.

Construction – The InnovaMass 240S and InnovaMass 241S Multivariable Mass Vortex Flowmeters enclosures is a cylindrical shaped housing constructed of aluminium with a powder coat finish. Each end of the enclosure is closed via threaded covers (blank or windowed). The enclosure is provided with two ¾ inch-14 NPT entries. The joint between the meter body enclosure and process connection adapter is threaded. O-rings are provided on the threaded covers, in-line split adapter, and insertion adapter for environmental protection. The enclosures have an ingress protection rating of IP66.

Ratings – The InnovaMass 240S and InnovaMass 241S Multivariable Mass Vortex Flowmeters operate from 12-36 VDC or 100-240 VAC, 4-20 ma. The InnovaMass 240S and InnovaMass 241S Multivariable Mass Vortex Flowmeters Models are for use in process temperatures of -40°C to 260°C with a high temperature option (HT) for process temperatures -40°C to +400°C.

Refer to the Annex for model codes.

13. Specific Conditions of Use:

None

14. Test and Assessment Procedure and Conditions:

This Certificate has been issued in accordance with FM Approvals US Certification Requirements.

15. Schedule Drawings

A copy of the technical documentation has been kept by FM Approvals.

16. Certificate History

Details of the supplements to this certificate are described below:

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Date	Description
29 July 2022	Original Issue.
23 March 2026	<u>Supplement 1:</u> Report Reference: PR475910 dated 23 March 2026. Description of the Change(s): Model code revisions. Company address updated. Where possible, standards have been updated to the latest editions where changes between versions are considered non-technical.



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ANNEX

InnovaMass 240S

Description of Equipment:

InnovaMass 240S-a-b-c-d-e-f. In-line Multivariable Mass Vortex Flowmeter.

a = Multiparameter options: V, VT, VTP, VETEP, VETEP-EMS, VTEP, VTEP-EMS, VT-EMS or VTP-EMS.

b = Flow body: F2, F3, F4, F5, F6, F7, F8, F9, F10, F11, F12, G2, G3, G4, G5, G6, G7, G8, G9, G10, G11, G12, H2, H3, H4, H5, H6, H7, H8, H9, H10, H11, H12, I2, I3, I4, I5, I6, I7, I8, I9, I10, I11, I12, FC5, FC6, FC7, FC8, FC9, FC10, FC11, FC12, GC5, GC6, GC7, GC8, GC9, GC10, GC11, GC12, HC5, HC6, HC7, HC8, HC9, HC10, HC11, HC12, IC5, IC6, IC7, IC8, IC9, IC10, IC11, IC12, FD2, FD3, FD4, FD5, FD6, FD7, FD8, FD9, FD10, FD11, FD12, GD2, GD3, GD4, GD5, GD6, GD7, GD8, GD9, GD10, GD11, GD12, HD2, HD3, HD4, HD5, HD6, HD7, HD8, HD9, HD10, HD11, HD12, FJ2, FJ3, FJ4, FJ5, FJ6, FJ7, FJ8, FJ9, FJ10, FJ11, FJ12, GJ2, GJ3, GJ4, GJ5, GJ6, GJ7, GJ8, GJ9, GJ10, GJ11, GJ12, HJ2, HJ3, HJ4, HJ5, HJ6, HJ7, HJ8, HJ9, HJ10, HJ11, HJ12, W2, W3, W4, W5, W6, W7 or W8.

c = Electronics enclosure: E2-DD or E4(*)-DD. *Specify cable length.

d = Input/Output: PV1L-V4LH, PV1-V4H, PV1-V4M, PV1-V4B, PV1-V6H, PV1-V6M, PV1-V6B, PV1-V4M-IP, PV1-V4B-IP, PV1-V6M-IP, PV1-V6B-IP, PS-V4H, PS-V4M, PS-V4B, PS-V6H, PS-V6M or PS-V6B.

e = Process temperature: ST or HT.

f = Process pressure: MP0, MP1, MP2, MP3, MP4 or MP5.

InnovaMass 240S-R

Description of Equipment:

InnovaMass 240S-R-a-b-c-d-e-f. In-line Multivariable Mass Vortex Flowmeter.

a = Multiparameter options: V, VT, VTP, VETEP, VETEP-EMS, VTEP, VTEP-EMS, VT-EMS or VTP-EMS.

b = Flow body: R-F3, R-F4, R-F5, R-F6, R-F7, R-F8, R-F9, R-F10, R-F11, R-F12, R-G3, R-G4, R-G5, R-G6, R-G7, R-G8, R-G9, R-G10, R-G11, R-G12, R-H3, R-H4, R-H5, R-H6, R-H7, R-H8, R-H9, R-H10, R-H11, R-H12, R-I3, R-I4, R-I5, R-I6, R-I7, R-I8, R-I9, R-I10, R-I11, R-I12, R-W3, R-W4, R-W5, R-W6, R-W7 or R-W8.

c = Electronics enclosure: E2-DD or E4(*)-DD. *Specify cable length.

d = Input/Output: PV1L-V4LH, PV1-V4H, PV1-V4M, PV1-V4B, PV1-V6H, PV1-V6M, PV1-V6B, PV1-V4M-IP, PV1-V4B-IP, PV1-V6M-IP, PV1-V6B-IP, PS-V4H, PS-V4M, PS-V4B, PS-V6H, PS-V6M or PS-V6B.

e = Process temperature: ST or HT.

f = Process pressure: MP0, MP1, MP2, MP3, MP4 or MP5.

InnovaMass 241S

Description of Equipment:

InnovaMass 241S-a-b-c-d-e-f-g. Insertion Multivariable Mass Vortex Flowmeter.

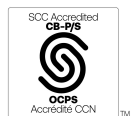
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b = Probe length: LS, LC or LE.

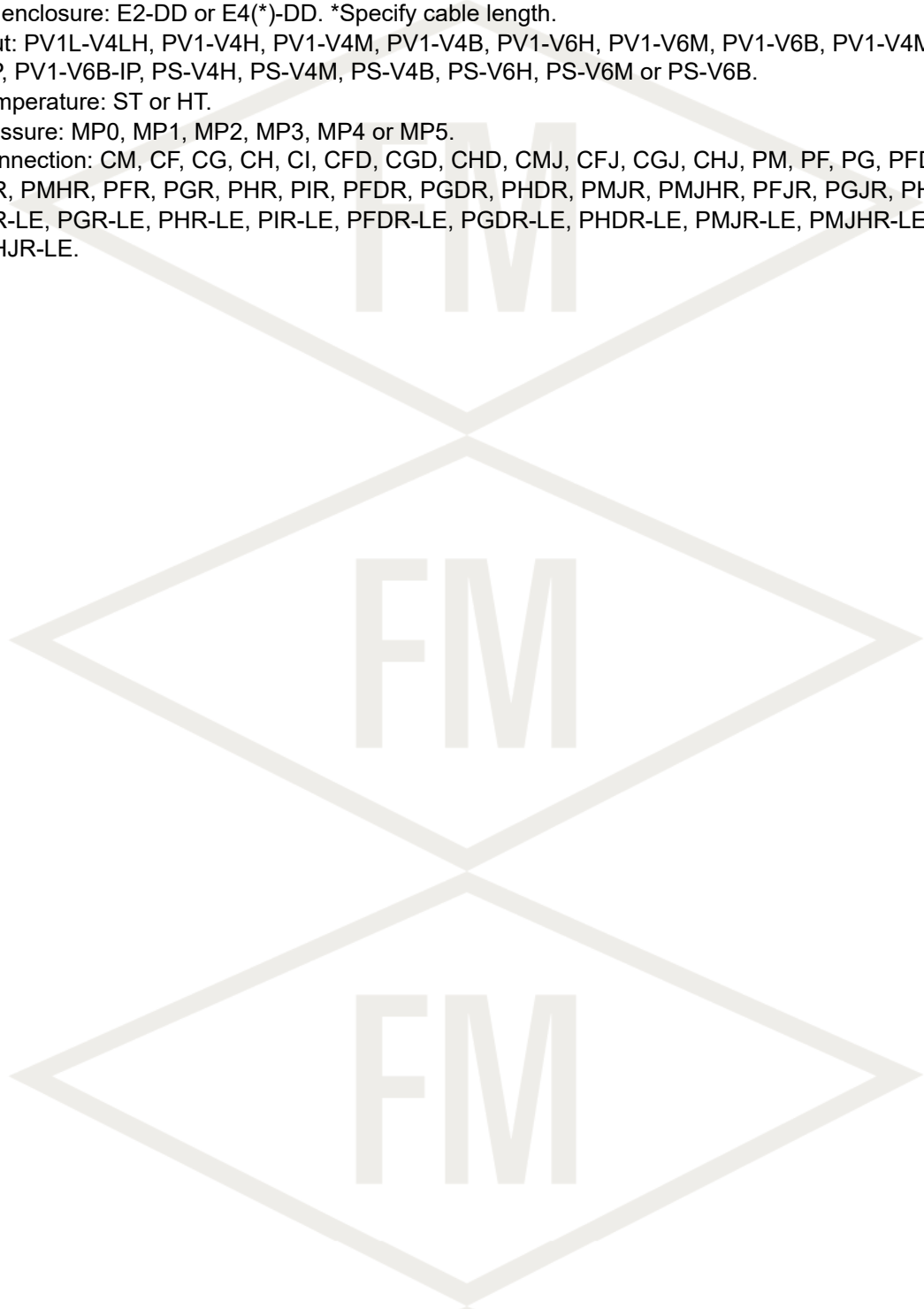
c = Electronics enclosure: E2-DD or E4(*)-DD. *Specify cable length.

d = Input/Output: PV1L-V4LH, PV1-V4H, PV1-V4M, PV1-V4B, PV1-V6H, PV1-V6M, PV1-V6B, PV1-V4M-IP, PV1-V4B-IP, PV1-V6M-IP, PV1-V6B-IP, PS-V4H, PS-V4M, PS-V4B, PS-V6H, PS-V6M or PS-V6B.

e = Process temperature: ST or HT.

f = Process pressure: MP0, MP1, MP2, MP3, MP4 or MP5.

g = Process connection: CM, CF, CG, CH, CI, CFD, CGD, CHD, CMJ, CFJ, CGJ, CHJ, PM, PF, PG, PFD, PGD, PMJ, PFJ, PGJ, PMR, PMHR, PFR, PGR, PHR, PIR, PFDR, PGDR, PHDR, PMJR, PMJHR, PFJR, PGJR, PHJR, PMR-LE, PMHR-LE, PFR-LE, PGR-LE, PHR-LE, PIR-LE, PFDR-LE, PGDR-LE, PHDR-LE, PMJR-LE, PMJHR-LE, PFJR-LE, PGJR-LE or PHJR-LE.



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