

CERTIFICATE OF CONFORMITY

1. **HAZARDOUS (CLASSIFIED) LOCATION ELECTRICAL EQUIPMENT PER US REQUIREMENTS**
2. **Certificate No:** FM19US0208
3. **Equipment:** ISDP-a.
(Type Reference and Name) Pressure Transmitter
4. **Name of Listing Company:** Dwyer Instruments Inc.
5. **Address of Listing Company:** 102 Indiana Hwy 212
Michigan City, IN 46360
United States
6. The examination and test results are recorded in confidential report number:
3029937 dated 7th October 2008
7. FM Approvals LLC, certifies that the equipment described has been found to comply with the following Approval standards and other documents:
FM Class 3600:2018, FM Class 3610:2018, FM Class 3810:2005, ANSI/ISA 60079-0:2009,
ANSI/ISA 60079-11:2009, ANSI/ISA 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.

Certificate issued by:



J.E. Marquedant
VP, Manager - Electrical Systems

11 March 2020

Date

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

THIS CERTIFICATE MAY ONLY BE REPRODUCED IN ITS ENTIRETY AND WITHOUT CHANGE

FM Approvals LLC. 1151 Boston-Providence Turnpike, Norwood, MA 02062 USA
T: +1 (1) 781 762 4300 F: +1 (1) 781 762 9375 E-mail: information@fmapprovals.com www.fmapprovals.com

SCHEDULE



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10. Equipment Ratings:

Intrinsically Safe for Class I, II, III, Division 1, Groups A, B, C, D, E, F and G, T4, Class I, Zone 0, AEx ia IIC, T4 Ta = 0°C to +72°C.

11. The marking of the equipment shall include:

IS, Class I, II, III, 1, Groups A, B, C, D, E, F and G; T4;
Class I, Zone 0, AEx ia IIC T4;
Ta = 0°C to +72°C

12. **Description of Equipment:**

The ISDP Series Differential Pressure Transmitter is designed for low differential pressure applications under 100 inches of water. The ISDP Transmitter outputs a 4 to 20mA signal proportional to the differential pressure measured. The apparatus has an LCD display that always displays the differential pressure measured.

Operation Temperature Ranges:
The ambient operating temperature range of the is 0°C to 72°C.

Electrical data:

Entity parameters:
Ui (Vmax) = 28Vdc; Ii (Imax)= 93mA; Ci = 22nF; Li = 400uH, Pi = 651mW

ISDP-a. Differential Pressure Transmitter.

a = Pressure Range: 001, 002, 003, 004, 005, 006, 007, 008, 009, 010, 011, 012, 013, 014, 015, 016, 017, 018

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**

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Details of the supplements to this certificate are described below:

Date	Description
7 th October 2008	Original Issue.
11 th March 2020	<u>Supplement 2:</u> Report Reference: – RR221325 dated 11 th March 2020. Description of the Change: Updated FM3600, FM3610 and FM3810 to the latest editions of the standards. Added ANSI/ISA 60079-0:2009, ANSI/ISA 60079-11:2009 and ANSI/ISA 61010-1:2004 references to the list of standards. Added model code option a = 018 to list of options. Updated low temperature from -40°C to 0°C. Specific condition of use is not required per the standards. It remains as a warning in the manual, but it is removed from the certificate.

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