

# CERTIFICATE OF CONFORMITY



1. **HAZARDOUS (CLASSIFIED) LOCATION ELECTRICAL EQUIPMENT PER US REQUIREMENTS**
2. **Certificate No:** FM16US0304
3. **Equipment:** Manometer.  
**(Type Reference and Name)** 475 Manometer.
4. **Name of Listing Company:** Dwyer Instruments Inc.
5. **Address of Listing Company:** Michigan City, IN  
USA
6. The examination and test results are recorded in confidential report number:  
1D9A7.AX dated 14<sup>th</sup> August 1998
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 3611:2004, FM Class 3810:2005,
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:**  
Nonincendive Apparatus for Class I, Division 2, Groups A, B, C, and D , indoor Hazardous(classified) Locations.
11. The marking of the equipment shall include:  
Class I, Division 2, Groups A, B, C and D; T4 Ta ≤ 70°C

**Certificate issued by:**

J.E. Marquedant  
VP, Manager - Electrical Systems

8 July 2019

Date

To verify the availability of the Approved product, please refer to [www.approvalguide.com](http://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  
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# SCHEDULE



US Certificate Of Conformity No: FM16US0304

**12. Description of Equipment:**

**General** - The Model 475 are battery operated manometers. They are available in ranges up to a maximum pressure of 150 psi (10.3bar).

**Construction** - The apparatus is housed in an enclosure of extruded aluminum with plastic ends.

**Ratings** - The circuitry for the apparatus operates from a single internal 9V battery, an intended for use in a maximum ambient temperature of 70°C.

**475-a. Manometer.**

NI/ I / 2 / ABCD/T4 Ta = 70°C

a = Pressure ranges 00, 0, 1, 2, 3, 4, 5, 6, 7.

**Special Condition of Use:**

1. For use with 9 Volt Duracell battery P/N MN1604, Eveready P/N 522 or Energizer battery P/N EN22 only.

**13. Specific Conditions of Use: .**

For use with 9 Volt Duracell battery P/N MN1604, Eveready P/N 522 or Energizer battery P/N EN22 only.

**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:

Date	Description
14 <sup>th</sup> August 1998	Original Issue.
28 <sup>th</sup> September 2016	<u>Supplement 3:</u> Report Reference: RR206341 dated 28 <sup>th</sup> September 2016 Remove listing of modle 477. Numerous drawing changes include minor component changes and revised design of enclosure and plastic endcaps.
8 <sup>th</sup> July 2019	<u>Supplement 4:</u> Report Reference: RR219409 dated 8 <sup>th</sup> July 2019 Description of change: Correction of Equipment Ratings in Section 10.

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