

# CERTIFICATE OF CONFORMITY



1. **HAZARDOUS (CLASSIFIED) LOCATION ELECTRICAL EQUIPMENT PER US REQUIREMENTS**
2. **Certificate No:** FM16US0180X
3. **Equipment:** Model 1056 Dual-Input Intelligent Analyzer  
**(Type Reference and Name)**
4. **Name of Listing Company:** Rosemount Inc.
5. **Address of Listing Company:** 8200 Market Blvd  
Chanhausen, MN 55317  
USA
6. The examination and test results are recorded in confidential report number:  
  
3029167 dated 7<sup>th</sup> December 2007
7. FM Approvals LLC, certifies that the equipment described has been found to comply with the following Approval standards and other documents:  
  
FM Class 3600:2011, FM Class 3611:2004, FM Class 3810:2005,  
ANSI/NEMA 250:2003
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  
Manager, Electrical Systems

18 June 2017

\_\_\_\_\_  
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



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10. Equipment Ratings:

Listing # 1

Nonincendive for use in Class I, II, III, Division 1, Groups A, B, C, D, E, F and G; Temperature Class T4A Tamb = -20°C to +50°C; Hazardous (Classified) Locations; Enclosure Type 4X.

Listing # 2

Nonincendive for use in Class I, II, III, Division 1, Groups A, B, C, D, E, F and G; Temperature Class T4A Tamb = -20°C to 50°C; when installed per Control Drawing 1400324; Hazardous (Classified) Locations; Enclosure Type 4X.

11. The marking of the equipment shall include:

Listing # 1

NI/I,II,III/2/ABCDEFGF  
Temp Class T4A Tamb = -20°C to +50°C  
Type 4X

Listing # 2

NI/I,II,III/2/ABCDEFGF  
Temp Class T4A Tamb = -20°C to +50°C  
Install Per control Drawing 1400324  
Type 4X

12. **Description of Equipment:**

The Model 1056 is a dual-input intelligent Analyzer with single or dual sensor inputs for measuring differential conductivity, pH, ORP, ISE, Chlorine, Dissolved Oxygen and Ozone. The Model 1056 dual-input intelligent Analyzer is specified for use in a maximum ambient temperature range of -20°C to +50°C.

Various sensors may be used for connection to the Model 1056 Analyzer. The sensors may be any simple apparatus devices, any contact conductivity sensors evaluated by FM for Class I, Division 2 installation and the turbidity sensors. The turbidity sensors are connected by Nonincendive field wiring in accordance with Control Drawing 1400324. All other sensor are required to be connected per a Division 2 wiring method excluding Nonincendive field wiring. The turbidity sensors are for use in a non-flammable liquid process only. All other sensor having direct electrodes in the process shall be used in a non-flammable liquid process only.

The tool secured housing is approximately 5" x 5.25"x 4" and the attached front face is 5.75" x 0.75" x 5.75". The front face contains a display and several push button switches for configuration. The Model 1056 Analyzer's housing was tested and found to be rated for NEMA Type 4X. The front face contains a lip and a gasket for panel mount installation. The panel mount gasket was not tested for Type 4X installation..

Listing # 1

**1056-a-b-c-d-e. Dual-Input Intelligent Analyzer.**

NI/I,II,III/2/ABCDEFGF/T4A Ta = -20°C to +50°C; Type 4X

a= Supply: 01, 02, 03.

b = Measurement 1: 20, 21, 22, 24, 25, 26

c = Measurement 2: 30, 31, 32, 34, 35, 36, 38 or blank.

d = Outputs: HT or AN.

e = UL or blank.

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Listing # 2

**1056-a-b-c-d-e. Dual-Input Intelligent Analyzer.**

NI/I,II,III/2/ABCDEFGH/T4A Ta = -20°C to +50°C; - 1400324; NIFW

Type 4X

a = Supply: 02, 03

b = Measurement 1: 20, 21, 22, 24, 25, 26 or 27.

c = Measurement 2: 30, 31, 32, 34, 35, 36, 37 or 38.

d = Outputs: HT or AN.

e = UL or blank.

**13. Specific Conditions of Use:**

Listing # 1

1. For use with the sensors in accordance with drawing 1700463.
2. Sensors having exposed electrodes in the process shall be used in a non-flammable liquid process only.
3. The panel mount gasket has not been tested for Type 4X installation. Type 4X refers to the enclosure only.

Listing # 2

1. Turbidity sensors shall be used in a non-flammable liquid process only.
2. The panel mount gasket has not been tested for Type 4X installation. Type 4X refers to the enclosure only.
3. For use with the sensors in accordance with drawing 1700463.

**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
7 <sup>th</sup> December 2007	Original Issue. Report 3029167
1 <sup>st</sup> August 2016	<u>Supplement 4:</u> Report Reference: RR204406 dated 1 <sup>st</sup> August 2016 Description of the Change: <ol style="list-style-type: none"><li>1. Model code listing revised and new options added that are irrelevant to the Approval.</li><li>2. Labels revised to a new format.</li><li>3. Clerical changes made to several drawings.</li></ol>

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Member of the FM Global Group

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1 <sup>st</sup> February 2017	<u>Supplement 5:</u> Report Reference: RR207904 dated 1 <sup>st</sup> February 2017 Description of the Change: 1. Model code listing revised back to old format 2. Clerical changes to drawing as a result of model code update.
18 <sup>th</sup> June 2017	<u>Supplement 6:</u> Report Reference: RR209608 dated 18 <sup>th</sup> June 2017 Description of the Change: Product/Project transfer from Emerson Process Management-Rosemount Analytical Inc.

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