

CERTIFICATE OF CONFORMITY



1. **HAZARDOUS (CLASSIFIED) LOCATION ELECTRICAL EQUIPMENT PER US REQUIREMENTS**
2. **Certificate No:** FM16US0114X
3. **Equipment:** OCX 8800 Oxymitter/Combustibles Transmitters.
(Type Reference and Name)
4. **Name of Listing Company:** Emerson Process Management Rosemount Analytical Inc.
5. **Address of Listing Company:** 2400 Barranca Pkwy
Irvine
California 92606
USA
6. The examination and test results are recorded in confidential report number:
3024217 dated September 21, 2005
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 3810:2005, ANSI/ISA 12.00.01: 2002, ANSI/ISA 12.22.01: 2002;
ANSI/NEMA 250:1991, ANSI/IEC 60529:2004
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
Manager, Electrical Systems

25 May 2016

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
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SCHEDULE



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10. Equipment Ratings:

Suitable for Class I, Zone 1, AEx d IIB +H₂, Hazardous (Classified) Locations; Indoor and outdoor Type 4X / IP66

11. The marking of the equipment shall include:

Class I, Zone 1, AEx d IIB+H₂ T*; Type 4X / IP66

12. **Description of Equipment:**

General - The OCX 8800 Oxymitter/Combustibles Transmitters measure both the oxygen and combustible content of flue gases up to 1427°C. A sample is continuously extracted by eduction and is heated in the base of the sensor assembly to prevent condensation. The sample is presented to the heated oxygen sensor which creates an electrical signal based on sample differences from a reference gas. The sample is then mixed with a quantity of dilution air and drawn into the combustibles sensor chamber. This sensor consists of two Resistance Temperature Devices (RTD), one a reference element covered with an inert coating, the other an active element covered with a catalyst. As the sample flows by the sensor, the combustibles oxidize on the surface of the active element producing heat. The temperature difference between the two elements is directly proportional to the concentration of combustibles in the sample gas, and is converted to an electrical signal.

Construction - The OCX 8800 flameproof enclosure is comprised of two enclosures, one for the sensor assembly and one for the electronics assembly. These enclosures are configured for split architecture separated by up to 150 feet of cable.

Ratings – Temperature ratings are as described in section 13. Specific Conditions of Use. Input voltage is 100-240 Vac, 50/60Hz, Power 750W.

OCX88C-abcdefgh. OCX 8800 Oxygen/Combustibles Transmitters.

a = Probe Length and Material 00, 11, 12, 13, 14, 21, 22, 23, 24, 31 or 32.

b = Probe Mounting Assembly 10, 11, 20 or 21.

c = Mounting Hardware - Stack Side 0, 1, 2, 3, 4 or 5.

d = Mounting Hardware - Probe Side 0, 1 or 4.

e = Electronics Housing H1, H2, H3, H4, F1, F2, F3 or F4.

f = Electronic Mounting 01 or 02.

g = In-Situ Filter 0, 1, 2 or 3.

h = Accessories 0, 1, 2, 3 or 4.

13. **Specific Conditions of Use:**

1. *Electronics Enclosure: T6 (-40°C ≤ Tamb ≤ 65°C) and Sensor Enclosure: T3 (-40°C ≤ Tamb ≤ 100°C).
2. IP66 and Type 4X when reference air vents are routed to a dry area.

14. **Test and Assessment Procedure and Conditions:**

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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
September 21, 2005	Original Issue.
25 th May 2016	<u>Supplement 3:</u> Report Reference: – RR201535 dated 25 th May 2016 Description of the Change: Approval transfer from Rosemount Analytical Inc., Solon OH. Reformat of Certificate.

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