

CERTIFICATE OF CONFORMITY



- HAZARDOUS (CLASSIFIED) LOCATION ELECTRICAL EQUIPMENT PER US REQUIREMENTS**
- Certificate No:** FM16US0030X
- Equipment:**
(Type Reference and Name) *OXT4C Oxymitter 4000 Oxygen Transmitters*
OXT4CDR Oxymitter DR Oxygen Probe
Model 6A00094G07 Oxymitter 5000 – Standalone Remote Electronics with HART Communication
Model 6A00094G08 Oxymitter 4000 – Standalone Remote Electronics with Foundation Fieldbus Communication
- Name of Listing Company:** Emerson Process Management, Rosemount Analytical Inc.
- Address of Listing Company:** 2400 Barranca Pkwy
Irvine
California 92606
USA
- The examination and test results are recorded in confidential report number:

3015992 dated February 28, 2003
- 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 3615:2006, FM Class 3616:2011, FM Class 3810: 2005,
ANSI/ISA-S82.02.01: 1999, ANSI/ISA 12.00.01: 2002, ANSI/ISA 12.16.01: 1998, ANSI/IEA 12.22.01: 2002
- 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.
- 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:

Explosionproof for Class I, Division 1, Groups B, C and D, Flameproof for Class I, Zone 1, AEx d IIB+H2 T2, Flameproof for Class I, Zone 1, AEx de IIB+H2 T6 (Remote Electronics) / T2 (Probe)

11. The marking of the equipment shall include:

OXT4C (Integral) & OXT4CDR (with Sensing Probe Types: 1, 2, 3, 4, 5, 6, 7, 8, A, B, C, D, E or F)

Explosion Proof: Class I Division 1, Groups B, C, D; *T2 Ta = 70°C
Class I, Zone 1, AEx d IIB+H2 / *T2 Ta = 70°C

OXT4C (Split Architecture)

Class I, Zone 1, AEx de IIB+H2 *T6 Ta = 70°C

OXT4CDR (without 44V DR probe)

Explosion Proof: Class I Division 1, Groups B, C, D; T2 Ta = 70°C

All Other Equipment

Class I, Zone 1, AEx de IIB+H2 T6 Ta = 70°C

12. **Description of Equipment:**

General - The Oxymitter 4000 & 5000 Oxygen Transmitters & Oxymitter DR Oxygen Probe measure the net concentration of O₂ inside the exhaust duct and stacks. The sensor has an electrochemical cell which senses the voltage developed across the heated cell. The transmitter sends a 4-20mA signal through the integral conditioner to the controller that is proportional to the percentile of O₂ concentration inside the duct.

Ratings - Ambient temperature range of -20°C to +70°C. Temperature Code(s) are particular to model and Specific Condition of Use.

OXT4C-abcdefghijkl. Oxymitter 4000 Oxygen Transmitters (Integral).

XP / I / 1 / BCD / *T2 Ta = 70°C; I / 1 / AExd / IIB+H₂ / *T2 Ta = 70°C

a = Sensing Probe Type: 1, 2, 3, 4, 5, 6, 7 or 8

b = Probe Assembly: 0, 1, 2, 3, 4, 5 or 6

c = Mounting Adapter- Stack Side: 0, 1, 2 or 3

d = Mounting Adapter - Probe Side: 0, 1, 2, 4, 5, 7 or 8

e = Electronics Housing: 21, 22, 23, or 24

f = Communications: 1, 2 or 3

g = Language: 1, 2, 3, 4 or 5

h = Termination Filtering: 00

i = Calibration Accessories: 00

j = Hazardous Area Approval: 00

k = Cable: 00

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OXT4CDR-abcdef20. Oxymitter DR Oxygen Probe.

XP / I / 1 / BCD / T2 Ta = 70°C

- a = Sensing Probe Type: 1, 2, 3, 4, 5 or 6.
- b = Probe Assembly: 0, 1, 2, 3, 4, 5 or 6.
- c = Mounting Adapter - Stack Side: 0, 1, 2 or 3.
- d = Mounting Adapter - Probe Side: 0, 1, 2, 4, 5, 7 or 8.
- e = Electronics Housing: 11 or 12.
- f = Arrangement: 03, 04, 05, 07, 08 or 09.

OXT4CDR-abcdef20. Oxymitter DR Oxygen Probe.

XP / I / 1 / BCD / *T2 Ta = 70°C; I / 1 / AExd / IIB+H₂ / *T2 Ta = 70°C

- a = Sensing Probe Type: 1, 2, 3, 4, 5, 6, 7, 8, A, B, C, D, E or F
- b = Probe Assembly: 0, 1, 2, 3, 4, 5 or 6
- c = Mounting Adapter- Stack Side: 0, 1, 2 or 3
- d = Mounting Adapter - Probe Side: 0, 1, 2, 4, 5, 7 or 8
- e = Electronics Housing: 11 or 12
- f = Arrangement: 03, 04, 05, 07, 08 or 09

OXT4C-abcdefghijkl. Oxymitter 4000 Oxygen Transmitters (Split Architecture).

I / 1 / AEx de / IIB+H₂ / *T6 Ta = 70°C

- a = Sensing Probe Type: 1, 2, 3, 4, 5, 6, 7 or 8
- b = Probe Assembly: 0, 1, 2, 3, 4, 5 or 6
- c = Mounting Adapter- Stack Side: 0, 1, 2 or 3
- d = Mounting Adapter - Probe Side: 0, 1, 2, 4, 5, 7 or 8
- e = Electronics Housing: 23 or 24
- f = Communications: 1, 2 or 3
- g = Language: 1, 2, 3, 4 or 5
- h = Termination Filtering: 00
- i = Calibration Accessories: 00
- j = Hazardous Area Approval 00
- k = Cable: 00

Model 6A00094G07 Oxymitter 5000 – Standalone Remote Electronics with HART Communication

Model 6A00094G08 Oxymitter 4000 – Standalone Remote Electronics with Foundation Fieldbus Communication

13. **Specific Conditions of Use:**

1. *T2 Equipment; *T1 for 44V DR Probe
2. (Split Architecture): T6 for Electronics / T2 for Probe

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

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

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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
February 28, 2003	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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