



Certificate of Compliance

Certificate: 1238566

Master Contract: 212516

Project: 70006916

Date Issued: April 3, 2015

Issued to: **Rosemount Analytical Inc.**
Solon Research & Development Ctr
6565-P Davis Industrial Pkwy
Solon, OH 44139
USA
Attention: Dana Crowley

The products listed below are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US' for Canada and US or with adjacent indicator 'US' for US only or without either indicator for Canada only.



Issued by: *Marius Manastireanu*
Marius Manastireanu

PRODUCTS

2252- 06 – PROCESS CONTROL EQUIPMENT

2252- 86 – PROCESS CONTROL EQUIPMENT - Certified to U.S. Standards

Oxymitter series 4000 and DR: 1) **OXT4A**, rated 90-250 V~, 50/60 Hz; 2) **OXT4C**, rated 90-250 V~, 50/60 Hz; 3) **OXT4ADR**, rated 115 V~, 50/60 Hz; 4) **OXT4CDR**, rated 44V~ or 115V~, 50/60 Hz; 5) **SBX 1000**, rated 90-250 V~, 50/60 Hz; 6) **OXT4CNF**, rated 90-250 V~, 50/60 Hz; 7) **OXT4CDRNF**, rated 115 V~, 50/60 Hz

Models **6A00095G05**, **6A00095G06**, **6A00094G07** & **6A00094G08** Oxymitter 4000 series Standalone Remote Electronics with Standard Filtered Terminal Block, LOI Display and Window Cover, rated 90-250 V~, 50/60 Hz

Max. 500 VA, pollution Degree 2, Over Voltage Category II, operating temperature range -40 to 70°C, relative humidity 5 to 95 % (non-condensing)

Notes: The equipment is intended to be connected to supply mains according to the applicable local and national (e.g. CEC & NEC) regulations.



Certificate: 1238566
Project: 70006916

Master Contract: 212516
Date Issued: April 3, 2015

CLASS 2258 02 - PROCESS CONTROL EQUIPMENT - For Hazardous Locations
CLASS 2258 82 - PROCESS CONTROL EQUIPMENT - For Hazardous Locations - CERTIFIED TO U.S. STANDARDS

Class I, Division 1, Groups B, C and D:
Class I, Zone1, Ex d IIB+H2 T2*
Class I, Zone1, AEx d IIB+H2 T2*

Oxymitter Oxygen Transmitters: (Integral & DR)
4000 Series - Models **OXT4C-abcdefghij** and **OXT4CNF-abcdefghi** - Input rated 90-250 V~, 50/60 Hz, Max. 500 VA, pollution Degree 2, Over Voltage Category II, operating temperature range -40 to 70°C, Temperature Code T2, relative humidity 5 to 95% (non-condensing);

Model **OXT4C-abcdefghij**, Oxymitter 4000 Oxygen Transmitters

- 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 or 22
- f = Communications: 1, 2 or 3
- g = Language: 1, 2, 3, 4 or 5
- h = Termination Filtering: 00
- i = Calibration Accessories: 00 or 01
- j = Hazardous Area Approval 00

Model **OXT4CNF-abcdefghi**, Oxymitter 4000 Oxygen Transmitters

- a = Sensing Probe Type: 1, 2, 3, 4, 7 or 8
- b = Probe Assembly: 0, 3, or 5
- c = Mounting Adapter- Stack Side: 0, 1, 2 or 3
- d = Mounting Adapter - Probe Side: 0, 1, or 4
- e = Electronics Housing: 22
- f = Communications: 1, 2 or 3
- g = Language: 1, 2, 3, 4 or 5
- h = Calibration Accessories: 00 or 01
- i = Cable 00

DR Series - Models **OXT4CDR-abcdef20** and **OXT4CDRNF-abcdef20** - rated 44V~ (only for model OXT4CDR) or 115V~, 50/60 Hz, Max. 500 VA, pollution Degree 2, Over Voltage Category II, operating temperature range -40 to 70°C, *Temperature Code T1 for 44V~ model (OXT4CDR only) and T2 for the 115V~ model (both OXT4CDR and OXT4CDRNF), relative humidity 5 to 95% (non-condensing);

Model **OXT4CDR-abcdef20**, Oxymitter DR Oxygen Probe

- 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



Certificate: 1238566
Project: 70006916

Master Contract: 212516
Date Issued: April 3, 2015

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

Model **OXT4CDRNF-abcdef20**, Oxymitter DR Oxygen Probe

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

Class I, Zone 1, Ex de IIB+H2 T6 (Remote Electronics) / T2 (probe)
Class I, Zone 1, AEx de IIB+H2 T6 (Remote Electronics) / T2 (probe)
Class 1, Division 1, Groups B, C and D T2 (Probe)
Class 1, Division 2, Groups B, C and D T6 (Remote Electronics)

Oxymitter Oxygen Transmitters: (Split Architecture, Probe with Remote Electronics)
4000 Series - Models **OXT4C-abcdefghij** and **OXT4CNF-abcdefghi** - Input rated 90-250 V~, 50/60 Hz, Max. 500 VA, pollution Degree 2, Over Voltage Category II, operating temperature range -40 to 70°C, relative humidity 5 to 95% (non condensing);

Model **OXT4C-abcdefghij**, Oxymitter 4000 Oxygen Transmitters

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 or 01
j = Hazardous Area Approval 00

Model **OXT4CNF-abcdefghi**, Oxymitter 4000 Oxygen Transmitters

a = Sensing Probe Type: 1, 2, 3, 4, 7 or 8
b = Probe Assembly: 0, 3, or 5
c = Mounting Adapter- Stack Side: 0, 1, 2 or 3
d = Mounting Adapter - Probe Side: 0, 1, or 4
e = Electronics Housing: 24
f = Communications: 1, 2 or 3
g = Language: 1, 2, 3, 4 or 5
h = Calibration Accessories: 00 or 01
i = Cable 00



Certificate: 1238566
Project: 70006916

Master Contract: 212516
Date Issued: April 3, 2015

Permanently connected, Oxymitter 4000 Standalone Remote Electronics Model **6A00094G** with Standard Filtered Terminal Block, LOI Display and Window Cover, rated 90-250 V~, 50/60 Hz, 500 VA, pollution Degree 2, Over Voltage Category II, operating temperature range -40 to 55°C, relative humidity 5 to 95% (non condensing);

Note: Catalogue number **6A00094G** may be followed by two numerical suffixes identifying constructional variations of the Split Architecture covered in the Descriptive Report (ex. one flat cover with one window cover versus two flat covers)

Special Condition for Safe Use

1. Non-flame arrestor probe “-NF” versions must have the probe tube installed in a Non-Classified Area.
2. When the probe tube is mounted in a Hazardous (Classified) Area (with flame arrestor end to complete the assembly) calibration lines that travel in and out of the equipment bringing reference gas must not contain a pressure higher than 1.1 times the atmospheric pressure; these calibrating lines shall not contain pure oxygen, acetylene, or combustible gases other than the gases for which this Zones 1 Classified application has been investigated for: Group IIB+H₂ gases.
3. There are no interchangeable components
4. Contact the original manufacturer for information of the flame-proof joint dimensions
5. Fasteners property class must be A2-70 for units intended for use in Zone 1 classified areas.
6. Any other electronics not covered by this report and used in conjunction with the Oxymitter Probes or with the Remote Electronics must be installed in a Non-Classified Area (ex. Xi Advanced Electronics)

APPLICABLE REQUIREMENTS

CSA C22.2 No. 30-M1986 (R1999)	- Explosion-Proof Enclosures for Use in Class I Hazardous Locations
CSA C22.2 No. 213-M1987 (Reaffirmed 2008)	- Non-incendive Electrical Equipment for Use in Class I, Division 2 Hazardous Locations
CAN/CSA-E60079-0:02	- Electrical Apparatus for Explosive Gas Atmospheres; General Requirements
CAN/CSA-E60079-1:02	- Electrical apparatus for use in Class I, Zone 1, Hazardous (Classified) Locations; Type of protection Flameproof “d”
CAN/CSA-E79-7:03	- Electrical apparatus for use in Class I, Zone 1, Hazardous (Classified) Locations; Type of protection Increased Safety “e”
CAN/CSA-C22.2 No 61010-1-12	- Safety requirements for electrical equipment for measurement, control and laboratory use – Part 1: General requirements
UL Std No. 1203 Ed. 3	- Explosion-Proof and Dust-Ignition-Proof Electrical Equipment for Use in Hazardous (Classified) Locations
ANSI/ISA 12.12.01-2013	- Nonincendive Electrical Equipment for Use in Class I and II, Division 2 and Class III, Division 1 and 2 Hazardous (Classified) Locations
UL 61010-1 (3 rd Edition)	- Safety requirements for electrical equipment for measurement, control and laboratory use – Part 1: General requirements
ANSI/ISA 12.16.01-1998	- Electrical Apparatus for use in Class I, Zone 1 Hazardous (Classified) Locations; Type of protection Flameproof “e”
ANSI/ISA 12.00.01-2002	- Electrical Apparatus for use in Class I, Zone 0, 1 & 2 Hazardous (Classified) Locations; General Requirements
ANSI/ISA 12.22.01-2002	- Electrical Apparatus for use in Class I, Zone 1 Hazardous (Classified) Locations; Type of protection Flameproof “d”



Certificate: 1238566
Project: 70006916

Master Contract: 212516
Date Issued: April 3, 2015

MARKINGS




The manufacturer is required to apply the following markings.
Products shall be marked with the markings specified by the particular product standard.
Products certified for Canada shall have all Caution and Warning markings in both English and French.

Additional bilingual markings not covered by the product standard(s) may be required by the Authorities Having Jurisdiction. It is the responsibility of the manufacturer to provide and apply these additional markings, where applicable, in accordance with the requirements of those authorities.


Markings appear on min 0.02 in thick metal nameplates, secured to the enclosure with drive pins or screws, into bottomed holes. Serial numbers and the bilingual cautionary statements appear on separate nameplates secured as above.

As per Drawings 3D39743 (page 8 of 9), 3D39814 (page 8 of 9), 3D39875 (page 5 of 6), 6R00124 (page 8 of 9), 6R00125 (page 8 of 9) and 6R00126 (page 5 of 6).

Nameplate:

1. CSA Monogram with the Certification reference (2004.1238566) or if not near the Monogram CSA.2004.1238566;
2. Submitter's name and/or Master Contract Number 212516;
3. Specific catalogue or model designation;
4. Serial Number, Date code or equivalent;
5. Electrical ratings (V, Hz, A or VA);
6. Hazardous Location designation;
7. Max ambient;
8. An indication of the manufacturing location, if the equipment is manufactured at multiple locations;
9. Temperature Code Rating;
10. The Entity Parameters;
11. Safety related symbols (ISO 3864, No. B.3.6  and No. B.3.1 , IEC 417, No. 5041 
12. "Caution re. Keeping cover tight while circuits are live" and "Attention: Garder le couvercle bien fermé tant que les circuits sont sous tension" or the equivalent.
13. "Seal not required" and "Étanchéité ne est pas nécessaire" or equivalent.

On device:

1. Replacement fuse markings:
Fuse type(s) and rating(s) (in volts and amperes), adjacent to the fuse holder(s)
2. Protective Earth Terminal symbol  adjacent to ground terminal

The following statements marked on the terminal compartment of the Remote Electronics Enclosure:

1. "WARNING –EXPLOSION HAZARD - SUBSTITUTION OF COMPONENTS MAY IMPAIR SUITABILITY FOR CLASS I, DIVISION 2" and "AVERTISSEMENT – RISQUE D'EXPLOSION – LA SUBSTITUTION DE COMPOSANTS PEUT RENDRE CE MATERIEL INACCEPTABLE POUR LES EMPLACEMENTS DE CLASSE I, DIVISION 2" or equivalent



Certificate: 1238566
Project: 70006916

Master Contract: 212516
Date Issued: April 3, 2015

2. “WARNING –EXPLOSION HAZARD - DO NOT DISCONNECT EQUIPMENT UNLESS POWER HAS BEEN SWITCHED OFF OR THE AREA IS KNOWN TO BE NON-HAZARDOUS” and “AVERTISSEMENT- RISQUE D’EXPLOSION – AVANT DE DECONNECTER L’EQUIPMENT, COUPER LE COURTANT OU S’ASSURER QUE L’EMPLACEMENT EST DESIGNE NON DANGEREUX” or equivalent.

DOCUMENTATION

Each product shall be accompanied by the following documentation:

General: Technical specifications, instructions for use and details of where technical assistance may be obtained if required. Explanation for all warning or caution symbols used in the equipment.

Equipment Ratings: Including equipment supply, description of I/O connections, duty cycle and operating environmental conditions.

1. Pollution degree rating;
2. Installation category (optional);
3. Electrical supply ratings (V, Hz, A)
4. Indoor use statement;
5. Temperature/Humidity rating;
6. Replacement Fuse Ratings (certified equivalent to fuse noted in critical component)
7. Instructions and ratings for proper wiring (voltage, temperature, type, size) and connection

Equipment Installation: Including instructions for assembly and mounting, location requirements, details for special services (cooling supply, etc.) as applicable. Instructions provide list of product-specific RISKS that may affect service personnel. Instructions shall include statement for connection to MAINS through an external switch or circuit-breaker/external overcurrent protection devices and a recommendation that such protection be located near equipment.

1. Instructions for wiring including wire type, gage, voltage, etc. (minimum 300V, 90C)
2. Wiring to or from the Remote Electronics Enclosure, which enters or leaves the system enclosure, must utilize wiring methods suitable for Class I, Division 2 Hazardous Locations, as appropriate for the installation.

Equipment Operation: Including explanations of operating controls and warning symbols used, and instructions for interconnection, replacement of consumables (e.g. paper) and cleaning and decontamination as required. Instructions provide list of product-specific RISKS that may affect service personnel.

1. List of accessories which meet the manufacturer’s specifications to be used;
2. List of hazardous substances that can be liberated from the equipment and possible quantities;

Equipment Maintenance: Including instructions for preventative maintenance, inspection and cleaning, replacement of parts, etc. Instructions provide list of product-specific RISKS that may affect service personnel.

The following statements apply for the terminal compartment of the Remote Electronics Enclosure:

1. “This equipment is suitable for installation in Class I, Division 2, Group B, C, D hazardous locations or nonhazardous locations only.” or equivalent
2. “WARNING –EXPLOSION HAZARD - SUBSTITUTION OF COMPONENTS MAY IMPAIR



Certificate: 1238566
Project: 70006916

Master Contract: 212516
Date Issued: April 3, 2015

SUITABILITY FOR CLASS I, DIVISION 2” and “AVERTISSEMENT – RISQUE D’EXPLOSION – LA SUBSTITUTION DE COMPOSANTS PEUT RENDRE CE MATERIEL INACCEPTABLE POUR LES EMPLACEMENTS DE CLASSE I, DIVISION 2” or equivalent

3. “WARNING –EXPLOSION HAZARD - DO NOT DISCONNECT EQUIPMENT UNLESS POWER HAS BEEN SWITCHED OFF OR THE AREA IS KNOWN TO BE NON-HAZARDOUS” and “AVERTISSEMENT- RISQUE D’EXPLOSION – AVANT DE DECONNECTER L’EQUIPMENT, COUPER LE COURTANT OU S’ASSURER QUE L’EMPLACEMENT EST DESIGNÉ NON DANGEREUX” or equivalent.

The following statements apply to the probe assembly:

1. “Caution re. Keeping cover tight while circuits are live” and “Attention: Garder le couvercle bien fermé tant que les circuits sont sous tension” or the equivalent.
2. “Seal not required” and “Étanchéité ne est pas nécessaire” or equivalent.



Supplement to Certificate of Compliance

Certificate: 1238566

Master Contract: 161061

*The products listed, including the latest revision described below,
are eligible to be marked in accordance with the referenced Certificate.*

Product Certification History

Project	Date	Description
70006916	April 3, 2015	Update to report 1238566 with Class I, Division 2 Group BCD classification for the Oxymitter 4000 Remote Electronics (Split Architecture) and Class I, Division 1, Groups BCD classification for the Oxymitter 4000 Probe.
2752380	Feb 20, 2015	Update of models in report 1238566 to 61010-1 (3rd Edition) for ordinary location
2294470	Jun 4, 2010	Update to Report to 1238566 to include updated drawings and add models OXT4CNF, OXT5CNF and OXT4CDRNF for ordinary locations and hazardous locations.
2021896	Jun 19, 2008	Update to Certificate 1238566 for minor revision to Oxymitter 5000 Oxygen transmitter (Model OXT5C) to add alternate Fieldbus card.
1790776	May 4, 2006	Update to Certificate 1238566 for minor revisions to OXT 4000, 5000, DR & SBX
1771484	Apr 3, 2006	Update to report for minor changes to Oxymitter Series
1635826	Feb 4, 2005	Addition of the Oxymitter series to include SBX 1000 model for Ordinary Locations.
1525122	Jun 24, 2004	Addition of the OXT4CDR 44V Probe model and adding new Split Architecture models for zone certification only