



# Certificate of Compliance

**Certificate:** 1602514 (LR 39156)

**Master Contract:** 212516

**Project:** 2440630

**Date Issued:** October 28, 2011

**Issued to:** Rosemount Analytical Inc.

Process Analytic Division  
Solon Research & Development Ctr  
6565-P Davis Industrial Pkwy  
Solon, OH 44139  
USA  
Attention: Stephen J. Miesiak

*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.*



*Scott Wallace*

**Issued by:** Scott Wallace

## **PRODUCTS**

**CLASS 2252 03** - PROCESS CONTROL EQUIPMENT

**CLASS 2252 83** - PROCESS CONTROL EQUIPMENT - Certified to US Standards

Model **OCX88A**-abcdefgh. OCX 8800 Oxygen/Combustibles Transmitters

Input rated: 100-240 V~, 50/60 Hz, Max. 750 W, pollution Degree 2, Over Voltage Category II;

Operating Temperature range -40 to 70°C (Electronics Enclosure) and -40 to 100°C (Sensor Enclosure)

Relative humidity 5 to 95 % (non condensing). IP 66 & Type 4X (when reference air vents are routed to a dry area), Permanently connected.

Notes:

Model Suffixes abcdefgh indicate optional construction as follows:

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



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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, 02, 03, 04, 05, 06, 07 or 08

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

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

**2258-02 – PROCESS CONTROL EQUIPMENT – For Hazardous Locations**

**2258-82 – PROCESS CONTROL EQUIPMENT – For Hazardous Locations – Certified to U.S. Standards**

**Class I, Zone1, Ex d IIB+H2 T3\***

**Class I, Zone1, AEx d IIB+H2 T3\***

\*Sensor Enclosure: **T3** (-40°C ≤ Tamb ≤ +100°C)

\*Electronics Enclosure: **T6** (-40°C ≤ Tamb ≤ +65°C)

\*Integral Assembly: **T3** (-40°C ≤ Tamb ≤ +65°C)

Model OCX88C-abcdefgh. OCX 8800 Oxygen/Combustibles Transmitters

Input rated: 100-240 V~, 50/60 Hz, Max. 750 W, pollution Degree 2, Over Voltage Category II;

Relative humidity 5 to 95 % (non condensing). IP 66 & Type 4X (when reference air vents are routed to a dry area), Permanently connected.

Notes:

Model Suffixes abcdefg indicate optional construction as follows:

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



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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

### **APPLICABLE REQUIREMENTS**

- |   |   |   |
|---|---|---|
| CAN/CSA-C22.2 No. 61010.1-04<br>Control,                | - | Safety Requirements for Electrical Equipment for Measurement,<br>and Laboratory Use, Part 1: General Requirements |
| CSA Std. C22.2 No 94-M91<br><i>(Reaffirmed 2006)</i>    | - | Special Purpose Enclosures  |
| CAN/CSA-C22.2 No. 60529:05                              | - | Degrees of protection provided by enclosures (IP Code)  |
| ANSI/ISA – S82.02.01<br>Controlling,                    | - | Safety Standard for Electrical and Electronic Test, Measuring,<br>and Related Equipment – General Requirements    |
| CAN/CSA-E60079-0:02                                     | - | Electrical Apparatus for Explosive Gas Atmospheres; General<br>Requirements                                       |
| CAN/CSA-E60079-1-07<br>(Classified)                     | - | Electrical apparatus for use in Class I, Zone 1, Hazardous<br>Locations; Type of protection Flameproof “d”        |
| ANSI/ISA 12.00.01-2002                                  | - | Electrical Apparatus for use in Class I, Zone 0, 1 & 2 Hazardous<br>(Classified) Locations; General Requirements  |
| ANSI/ISA 12.22.01-2002<br>Hazardous (Classified)<br>“d” | - | Electrical Apparatus for use in Class I, Zone 1<br>Locations; Type of protection Flameproof                       |
| UL std. No. 50 (Ed. 10)                                 | - | Enclosures for Electrical Equipment   |

### **MARKINGS**

- CSA c,us mark
- For Hazardous Locations models a certification reference (2005.1602514) or if not near the CSA c,us mark, CSA.2005.1602514
- Manufacturer's name or CSA file number 212516
- Model number, name or other means to identify the equipment.
- Electrical ratings; input voltage, input current.



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- Fuse sizes are marked adjacent to fuse holders
- Field supply connection terminals are marked
- Functional Earth terminal is marked
- Heater supply circuits are marked
- Signal terminals are marked
- Temperature rating of field wiring insulation marked (150°C)
- CSA accepted labels Certified to applicable CSA or equivalent standard suitable for the surface.
- Hazardous Location designation for Hazardous Locations models;
- Max ambient;
- Temperature Code Rating for Hazardous Locations models;
- Warning “AFTER DE-ENERGIZING, WAIT 45 MIN. BEFORE OPENING”, for Hazardous Locations models
- Seal Entries within 2" of Enclosure
- All units are shipped with an instruction manual

*Note - Jurisdictions in Canada may require these markings to also be provided in French language. It is the responsibility of the manufacturer to provide bilingual marking, where applicable, in accordance with the requirements of the Provincial Regulatory Authorities. It is the responsibility of the manufacturer to determine this requirement and have bilingual wording added to the "Markings".*



## *Supplement to Certificate of Compliance*

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

### **Product Certification History**

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<b>Project</b>	<b>Date</b>	<b>Description</b>
2440630	October 28, 2011	Update to report 1602514 to include updated drawings, alternate MOV's and alternate fuse clips.
2152590	July 15, 2009	Update Report 1602514 to include alternate construction and revised drawings.
1800493	June 16, 2006	Update to correct the class numbers on the Certificate from 2258-03 & 2258-83 to 2252-03 & 2252-83
1720337	March 13, 2006	Update report to add Hazardous Location Integral version of Model OCX88C Class I, Zone 1: Ex d IIB+H2 & AEx d IIB+H2.
1591281	April 28, 2005	Update to 1602514 Add Hazardous Location Models Class I, Zone 1: Ex d IIB+H2 & AEx d IIB+H2
1602514	December 20, 2004	Original Certificate