



Certificate of Compliance

Certificate: 1871347 (LR 34186)

Master Contract: 155560

Project: 2512312

Date Issued: May 4, 2012

Issued to: Rosemount Analytical Inc.

Uniloc Division
2400 Barranca Pky
Irvine, CA 92606
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.



Chris Burchett

Issued by: Chris Burchett

PRODUCTS

CLASS 2258 02 - PROCESS CONTROL EQUIPMENT - For Hazardous Locations

CLASS 2258 82 - PROCESS CONTROL EQUIPMENT - For Hazardous Locations -
Certified to US Standards

Class I, Division 2, Groups A, B, C and D; Class II, Division 2, Groups E, F, G; Class III; Maximum Ambient 50° C; Temp Code T4A; Enclosure Type 4X

Micro Process Analyzer - Model 1056-AB-CD-EF-GH

Rated: 115/230 Vac +/- 15%, 50/60 Hz +/- 6%, 10 W; 84-265 Vac, 47-63 Hz, 15 W and 24 Vdc, (20-30 Vdc), 15W.

Analyzer 1056 can be used with sensor models 222, 225, 226, and 228; and the EPA and ISO versions of the Clarity II turbidity sensors.



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Class I, Division 2, Groups A, B, C and D; Class II, Division 2, Groups E, F, G; Class III; Maximum Ambient 55° C; Temp Code T4; Enclosure Type 4X

Micro Process Analyzer - Model 1057-AB-CD-EF-GH

Rated: 84-265 Vac, 47-63 Hz, 15 W and 24 Vdc, (20-30 Vdc), 15W.

Analyzer 1057 can be used with sensor models 222, 225, 226, and 228.

Class I, Division 2, Groups A, B, C and D; Class II, Division 2, Groups E, F, and G; Class III; Maximum ambient 60C; T4; Enclosure Type 4X.

Advanced Dual Input Analyzer - Model 56-AB-CD-EF-GH

Rated: 85-265 Vac, 47-63 Hz, 20 W and 24 Vdc, (20-30 Vdc), 20W.

Model 56 can be used with sensor models 222, 225, 226, and 228; and the EPA and ISO versions of the Clarity II turbidity sensors.

Model nomenclature suffixes denoted by the following options:

Note: Nomenclature suffixes applied for Model 1056 and Model 1057 except where indicated.

AB – 2 digit numerical value denoting electrical options where:

01 = 115/230 Vac +/- 15%, 50/60 Hz +/- 6%, 10 W (only used with Model 1056)

02 = 24 Vdc, (20-30 Vdc), 15W (Model 56 is rated to 20W)

03 = 84-264 Vac, 47-63 Hz, 15 W (Model 56 is rated 85 to 264 Vac and 20W)

CD – 2 digit numerical value denoting 1st measurement option where:

20 = Contacting Conductivity

21 = Toroidal Conductivity

22 = PH/ORP/ISE

24 = Chlorine

25 = Dissolved Oxygen



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26 = Ozone

27 = Turbidity (When installed as per drawing 1400325 for 1056 or 1400668 for Model 56) (Not available with Model 1057)

EF – 2 digit numerical value denoting 2nd measurement option where:

30 = Contacting Conductivity

31 = Toroidal Conductivity

32 = PH/ORP/ISE

34 = Chlorine

35 = Dissolved Oxygen

36 = Ozone

37 = Turbidity (When installed as per drawing 1400325 for 1056 or 1400668 for Model 56) (Not available with Model 1057)

38 = None

GH – 2 digit numerical value denoting signal output option where:

AN= Analog 4-20 mA (Marking used with Model 1056 only)

HT= Hart 4-20 mA (Marking not used with Model 1057)

DP= Profibus DP (Marking not used with Model 1057)

40 = Contacting Conductivity (Marking used with Model 1057 only)

41 = Toroidal Conductivity (Marking used with Model 1057 only)

42 = PH/ORP/ISE (Marking used with Model 1057 only)

44 = Chlorine (Marking used with Model 1057 only)

45 = Dissolved Oxygen (Marking used with Model 1057 only)

46 = Ozone (Marking used with Model 1057 only)

48 = None (Marking used with Model 1057 only)



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*The following options support Non-Incendive Field Wiring (NIFW) when installed in accordance with drawing 1400325 for 1056 or 1400668 for Model 56:

Options 20, 30, 22, 32, 24, 34, 25, 35, 26, 36, 27, 37.

Output Entity Parameters for determining sensor compatibility and Non-Incendive Field Wiring connections:

Contacting Conductivity Output Card (Options 20, 30)

Voc, Uo = 6.633V

Isc. Io = 30.45mA

Pmax, Po = 50.5mW

Ca, Co = 250 μ F

La, Lo = 85mH

Amperometric Output Card (Options 24, 34, 25, 35, 26, 36)

Voc, Uo = 9.624V

Isc. Io = 104.07mA

Pmax, Po = 250.4mW

Ca, Co = 26 μ F

La, Lo = 7.3mH



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pH Output Card (Options 22, 23)

Voc, Uo = 9.624V

Isc, Io = 115mA

Pmax, Po = 276.8mW

Ca, Co = 26 μ F

La, Lo = 6mH

Notes:

APPLICABLE REQUIREMENTS

CSA Standard C22.2 No. 0-2010 - General Requirements - Canadian Electrical Code Part II.

CSA Standard C22.2 No. 0.4-04 - Bonding of Electrical Equipment

CSA Standard C22.2 No. 25-1966 - Enclosures for use in Class II groups E, F and G Hazardous Locations

CSA Standard C22.2 No. 94-M1991 - Special Purpose Enclosures.

CSA Standard C22.2 No. 142-M1987 - Process Control Equipment.

CSA Standard C22.2 No. 213-M1987 - Non-Incendive Electrical Equipment for Use in Class I, Division 2 Hazardous Locations.

ANSI/ISA 12.12.01: 2007 - Non incendive Electrical Equipment for Use in Class I and II, Division 2 and Class III, Divisions 1 and 2 Hazardous (Classified) Locations

UL Standard No. 50, 11th Edition - Enclosures for Electrical Equipment

UL Standard No. 508, 17th Edition - Industrial Control Equipment

MARKINGS

See descriptive report for marking requirements.