



Certificate of Compliance

Certificate: 1954859 (LR 57020)

Master Contract: 152235

Project: 2303442

Date Issued: June 25, 2010

Issued to: Magnetrol International Inc.

5300 Belmont Rd
Downers Grove, IL 60515
USA
Attention: Paul Snider

The products listed below are eligible to bear the CSA Mark shown



Ron Wachowicz

Issued by: Ron Wachowicz, C.E.T.

PRODUCTS

CLASS 2258 02 - PROCESS CONTROL EQUIPMENT - For Hazardous Locations

CLASS 2258 04 - PROCESS CONTROL EQUIPMENT - Intrinsically Safe, Entity - For Hazardous Locations

CLASS 2258 02 - PROCESS CONTROL EQUIPMENT for Hazardous Locations

Class I, Division 1, Groups B, C, D; Class II, Division 1, Groups E, F, G; Class III;

Class I, Division 2, Groups A, B, C, D; Class II, Division 2, Groups E, F, G; Class III:

Modulelevel E3 level transmitter, model E3a-bcde-fgh.

Temperature code T4 (Div 2) and T5 (Div 1); Ambient temperature -40°C to 80°C. Type 4X, IP66. Supply Input: 36 Vdc Max., 22.5 mA Max. Single Seal: Maximum Process Pressure rated up to 5100 PSI (35153 KPa). Maximum Process Temperature rated up to 1000o F / 538 o C.

Only where:

a = A, B, C, D, E, F, 1, 2, 3, 4, 5 or 6 (indicating option for top or side mounting with Stainless Steel E-Tube material)

b = A, B, C, D, E, F, J, K, L, M, N, or P (indicating Specific Gravity range and Temp Ext options)



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c = A, E, F, G, H, K, P, Q, or R (indicating process connection options)

d = 3, 4, 5, 6, 7, 8, K, L, M, or N (indicating chamber pressure rating and classification)

e = A through I (indicating sensing level range)

f = F, G, H, N, P, Q, 3, 8, or 9 (indicating output communications circuit type and rating)

g = 1 through 6 (indicating remote or integral mounting type and temperature option)

h = 1 or 3 (indicating XP type aluminum or stainless steel housing, and ¾ NPT conduit connection option)

CLASS 2258 04 - PROCESS CONTROL EQUIPMENT – Intrinsically Safe, Entity – For Hazardous Locations

Class I, Division 1, Groups A, B, C, D, Class II, Division 1, Groups E, F, G, Class III:

Module level E3 level transmitter, model E3a-bcde-fgh., 24 Vdc, 4-20 mA, T4 @ 80 °C max. Single Seal: Maximum Process Pressure rated up to 5100 PSI (35153 KPa). Maximum Process Temperature rated up to 1000o F / 538 o C.

Intrinsically safe when connected per drawing 099-5069 with entity parameters:

Hart: Vmax = 28.6 V, Imax = 140 mA, Pmax = 1.0 W, Ci = 5.5 nF, Li = 9.4 µH

Fieldbus/Profibus: Vmax = 17.5 V, Imax = 500 mA, Pmax = 5.5 W, Ci = 5 nF, Li = 10 µH

Only where:

a = A, B, C, D, E, F, 1, 2, 3, 4, 5 or 6 (indicating option for top or side mounting with Stainless Steel E-Tube material)

b = A, B, C, D, E, F, J, K, L, M, N, or P (indicating Specific Gravity range and Temp Ext options)

c = A, E, F, G, H, K, P, Q, or R (indicating process connection options)

d = 3, 4, 5, 6, 7, 8, K, L, M, or N (indicating chamber pressure rating and classification)

e = A through I (indicating sensing level range)

f = F, G, H, N, P, Q, 3, 8 or 9 (indicating output communications circuit type and rating)

g = 1 through 6 (indicating remote or integral mounting type and temperature option)

h = 5 or 7 (indicating IS type aluminum or stainless steel housing, and ¾ NPT conduit connection option)

Note: Process temperature must not increase ambient temperature of the electronics above 80 °C.



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APPLICABLE REQUIREMENTS

CSA Standard C22.2 No. 94.1-07 (*First Edition-September 2007*) - Enclosures for Electrical Equipment, Non-Environmental Considerations

CSA Standard C22.2 No. 94.2-07 (*First Edition-September 2007*) - Enclosures for Electrical Equipment, Environmental Considerations

CAN/CSA Standard C22.2 No. 60529:05 - Degrees of Protection Provided By Enclosures (IP Code)

CSA Standard C22.2 No. 142-M1987 (*Reaffirmed 2004*) - Process Control Equipment

CAN/CSA Standard C22.2 No. 61010-1-04 - Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use - Part 1: General Requirements

CSA Standard C22.2 No. 213-M1987 (*Reaffirmed 1999*) - Non-Incendive Electrical Equipment for Use in Class I, Division 2 Hazardous Locations

CSA Standard C22.2 No. 157-92 (*Including update No. 2, June, 2003*) - Intrinsically Safe and Non-Incendive Equipment for Use in Hazardous Locations.

CSA Standard C22.2 No. 25-1966 (*Reaffirmed 2000*) - Enclosures for Use in Class II Groups E, F, and G Hazardous Locations

CSA Standard C22.2 No. 30-M1986 (*Reaffirmed 2003*) - Explosion-Proof Enclosures for Use in Class I Hazardous Locations

ANSI-ISA-12.27.01-2003 - Requirements for Process Sealing Between Electrical Systems and Flammable or Combustible Process Fluids