



Certificate of Compliance

Certificate: 1644374 (LR 57020)

Master Contract: 152235

Project: 2465688

Date Issued: October 21, 2011

Issued to: Magnetrol International Inc.

5300 Belmont Rd
Downers Grove, IL 60515
USA
Attention: Jonathan Brost

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



Nicholas Cameron

Issued by: Nicholas Cameron

PRODUCTS

CLASS 2258 02 - PROCESS CONTROL EQUIPMENT - For Hazardous Locations

Zone 1, Ex d IIC; Class I, Div. 1, Groups B, C, D; Class II, Div. 1, Groups E, F, G; Class I, Div. 2, Groups A, B, C, D; Class II, Div. 2, Groups E, F, G; Class III; Enclosure Type 4X/IP66 Temp. Code T6:

Thermal Dispersion Switch, Model TD1-2D00-0xx, or Model TD2-8x0x-xxx, 24Vdc, 3.5W; ambient temp., Ta, - 40°C to +71°C, relay contacts DPDT, maximum 250V, 8 A;

Thermal Dispersion Switch, Model TD2-7x0x-xxx, 100-240V, 50/60Hz., 3.5W; ambient temp., Ta, - 40°C to +70°C, relay contacts DPDT, maximum 250V, 8 A;

The "x" in the model designation TD2-7x0x-xxx or TD2-8x0x-xxx may be an alpha-numeric character to specify options as follows:

1st x (fifth digit) = D for DPDT relay or H for hermetically sealed relay (SELV, 28V, 1A)

2nd x (seventh digit) = 0 for no glass window or 1 for glass window in cover

3rd x (eight digit) = 0 for integral location or 1 for remote location

4th x (ninth digit) = 3 or 7 for FM/CSA, C or G for ATEX "Ex d" housing (if 7, 5th x (tenth digit) = 4 or 5)

5th x (tenth digit) = 0 for aluminum ¾ "NPT, 1 for aluminum M20, 2 for 316SST ¾ "NPT, 3 for 316SST M20, 4 for deep drawn 304 SST with ½" NPT conduit entry, 5 for deep drawn 304 SST with M20 dual conduit entry



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(4 and 5, Non-Incendive: Class I, Div. 2, Groups A, B, C, D and Suitable for: Class II & III, Div. 2, Groups E, F, G; Type 4X, IP66).

Zone 1, Ex d IIC; Class I, Div. 1, Groups B, C, D; Class II, Div. 1, Groups E, F, G; Class III; Temp. Code T4

Thermal Probe, Model Tab-cde0-fgh, for use with Thermal Dispersion Switch, as describe by CSA report, 1644374. Process Temperature: probe integral to host switch -40°C to $+121^{\circ}\text{C}$ or probe remote -73°C to $+204^{\circ}\text{C}$ (454°C for TxH probe); Ambient Temperature: T_a , -40°C to $+71^{\circ}\text{C}$. Single Seal where a = E or M; b = A, B, C, D, H, L and M; c = A, B, C or D; d = 0, 1, 2, 3, 4, B, C, D, T or V; e = 0, 1, 2, 3, 4, 5, 7, 8, A, B, C, D, E, G, and J; fgh = 002 to 130 inches (5 to 330 cm). Models TxA-xxxx and TxB-xxxx: MWP 600 psig, models TxC-xxxx, TxD-xxxx and TxM-xxxx: MWP 3000 psig, models TxH-xxxx: MWP 6000 psig, and models TxL-xxxx: MWP 5800 psig.

Note:

- 1) The MWP and Temperature are dependant on the model configuration and may be de-rated. Specific MWP and Temperature information are permanently marked on the nameplate when configuration details are known.
- 2) The Process Temperature Range for all of the above Model Series configurations is -73°C to $+204^{\circ}\text{C}$ except for the TxH High Temperature Probe which is rated up to 454°C .

APPLICABLE REQUIREMENTS

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

CSA Std C22.2 No. 25-1966 - Enclosures for Use in Class II, Groups E, F and G Hazardous Locations.

CSA Std C22.2 No. 30-M1986 - Explosion-Proof Enclosures for Use in Class I Hazardous Locations.

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

CAN/CSA-E60079-0:07 - Electrical apparatus for explosive gas atmospheres, Part 0 General Requirements.

CAN/CSA-E60079-1:07 - Electrical apparatus for explosive gas atmospheres, Part 1 Flameproof enclosures “d”.

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