



Certificate of Compliance

Certificate: 2584821

Master Contract: 229534

Project: 2584821

Date Issued: January 4, 2012

Issued to: Pyromation Incorporated
5211 Industrial Rd.
Fort Wayne, IN 46825
USA

Attention: Mr. Chris Moritz

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



Issued by: Rachel Miranda
Rachel Miranda

PRODUCTS

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

Class I, Division 1, Groups A, B, C and D:

Two-wire Head Transmitter, Model T82, rated 11-42V, 23 mA with optional Display Module type D10. Intrinsically Safe when connected per dwg M008501 with Entity $U_i = 30$ V, $I_i = 130$ mA, $P_i = 800$ mW; $C_i = 0$ μ F, $L_i = 0$ μ H. Sensor output having Entity $U_o = 7.6$ V, $I_o = 13$ mA, $P_o = 24.7$ mW, $C_o = 10.4$ μ F (Groups A & B); 160 μ F (Group C); 1000 μ F (Group D), $L_o = 236$ mH (Groups A & B); 946 mH (Group C); 1.893 H (Group D). Temp. Codes T4, Ta = - 50°C to + 85°C; T5, Ta = - 50°C to + 75°C; T6, Ta = - 50°C to + 58°C.

CLASS – 2258 02 - PROCESS CONTROL EQUIPMENT Process Control equipment for Hazardous Locations

Class I, Div. 1, Groups A, B, C & D; Class II, Div. 1 Groups E, F & G; Class III:

Temperature Transmitter, Type T82, powered by a voltage of 11...42 Vdc, 23 mA with optional Display Module type D10. Explosion-proof when installed per Drawing M008401. Temperature codes T4, Ta = - 40°C to +85°C; T5, Ta = - 40°C to +80°C and T6, Ta = - 40°C to +70°C. Enclosure Type 4X.

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CLASS – 2258 03 - PROCESS CONTROL EQUIPMENT - Intrinsically Safe and Non-Incendive Systems - For Hazardous Locations

Class I, Division 2, Groups A, B, C and D:

- Two-wire Head Transmitter, Model T82, rated 11-42V, 23 mA with optional Display Module type D10. Non-Incendive when installed with Certified non-incendive associated apparatus meeting entity $U_i / V_{max} = 35V_{dc}$; $C_i = 0 \mu F$; $L_i = 0 \mu H$ per dwg M008501. Temp. Codes T4, $T_a = - 50^{\circ}C$ to $+ 85^{\circ}C$; T5, $T_a = - 50^{\circ}C$ to $+ 75^{\circ}C$; T6, $T_a = - 50^{\circ}C$ to $+ 58^{\circ}C$.

The above units are certified as a component for use within an enclosure where the suitability of the final combination is to be determined by authority having jurisdiction.

CLASS – 2252 05 - PROCESS CONTROL EQUIPMENT

Temperature Head Transmitter, Model T82, rated 11-42V dc, 23 mA with either one or two temperature sensor inputs for resistance thermometers, thermocouples and resistance and voltage transmitters. Installation Category I, Pollution degree 2.

APPLICABLE REQUIREMENTS

- CAN/CSA C22.2 No. 0-M91 (R2001) - General Requirements - Canadian Electrical Code, Part II
- CSA Std. C22.2 No. 142-M1987 - Process Control Equipment
- CAN/CSA-C22.2 No. 157-92 - Intrinsically Safe and Non-Incendive Equipment for Use in Hazardous Locations
- CSA Std. C22.2 No. 213-M1987 - Non-Incendive Electrical Equipment for Use in Class I, Division 2 Hazardous Locations
- CAN/CSA-C22.2 No. 61010-1-04 - Safety Requirements for Electrical Equipment for Measurement, Control and Laboratory Use, Part 1: General Requirements.

MARKINGS

Company name, trade name and/or CSA Master Contract No. 229534;

- Model designation;
- Serial Number;
- Hazardous locations designations;
- CSA Monogram;
- Temperature Codes for T82, T4, T5 & T6 with max temperature $85^{\circ}C$, $75^{\circ}C$ & $58^{\circ}C$ respectively;
- Reference to Installation Drawing(s);
- The symbol, “Exia” or “Intrinsically Safe”, “Non-Incendive” or “Explosion Proof” as applicable;

Method of Marking: Certified adhesive label 3M, type 7384, polyester silver polished with thermo transfer or laser etched on enclosure.

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Markings per CSA 61010

1. The company's name.
2. Model designation.
3. Electrical ratings: Input and output.
4. Date of manufacture.
5. Temperature rating.
6. The CSA Monogram

DOCUMENTATION per CSA 61010:

Equipment is accompanied by the following document:

- Instructions Manual.

The document contains ratings, technical specifications, instructions for use, and details of where technical assistance may be obtained if required.

Equipment Installation: This includes instructions for assembly and mounting, location requirements, details for special services (cooling supply, etc.) as applicable.

Equipment Operation: This includes explanations of operating controls and warning symbols used, and instructions for interconnection, replacement of consumables (e.g. paper) and cleaning as required.

Equipment Maintenance: This includes instructions for preventative maintenance, inspection and cleaning, replacement of parts, etc.

Equipment Rating: This includes equipment supply, description of I/O connections, duty cycle and following operating environmental conditions.

1. Pollution degree: 2;
2. Installation category: I;
3. Altitude: 2000m;
4. Humidity: 0 to 95 %, non-condensing;
5. Electrical supply: T82, 11-42V dc, 23 mA;
6. To be supplied by SELV or class 2 source