

# Certificate of Compliance

**Certificate:** 1780998

**Master Contract:** 229534

**Project:** 1780998

**Date Issued:** April 12, 2006


**Issued to:** Pyromation Incorporated  
5211 Industrial Rd  
Fort Wayne, IN 46825  
U.S.A.

**Attention:** Mark Greenwood

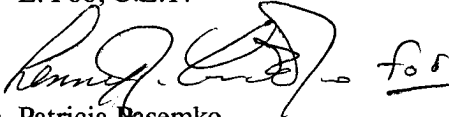
*The products listed below are eligible to bear the CSA Mark shown*



**Issued by:**

  
E. Foo, C.E.T.

**Authorized by:**

  
Patricia Pasemko  
Operations Manager

## PRODUCTS

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

Ex ia IIC:

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

- Temperature Transmitter, Series 642, input rated 8 - 30V, 4 - 20mA, with entity parameters:  $U_i = 30V$ ,  $I_i = 300mA$ ,  $P_i = 1W$ ,  $C_i = 5.3nF$ ,  $L_i = 0\mu H$ . Intrinsically safe when connected per Installation Drawing No. M007601. Temperature codes for Transmitter without Display: T6 at  $T_a = -40^\circ C$  to  $+55^\circ C$ ; T5 at  $T_a = -40^\circ C$  to  $+70^\circ C$ ; and T4 at  $T_a = -40^\circ C$  to  $+85^\circ C$ . Temperature code for Transmitter with Display: T4 at  $T_a = -40^\circ C$  to  $+70^\circ C$ .

Associated intrinsically safe circuits for connection of a temperature sensor with entity parameters:  $U_o = 7.6V$ ,  $I_o = 29.3mA$ ,  $P_o = 55.6mW$ ,  $C_a/Co = 10.4\mu F$ ,  $L_a/Lo = 40mH$  (Groups A & B / IIC);  $C_a/Co = 160\mu F$ ,  $L_a/Lo = 150mH$  (Group C / IIB);  $C_a/Co = 1000\mu F$ ,  $L_a/Lo = 300mH$  (Group D, respectively IIA).



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

Ex nA IIC:

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

- Temperature Transmitter, Series 642, input rated 40Vdc, 4-20mA. Non-Incendive when installed with certified non-incendive associated apparatus meeting entity  $U_i/V_{max} = 40Vdc$ ,  $C_i = 5.3nF$ ,  $L_i = 0uH$  per Drawing No. M007601. Temperature codes: T6 at  $T_a = -40^{\circ}C$  to  $+55^{\circ}C$ ; T5 at  $T_a = -40^{\circ}C$  to  $+70^{\circ}C$ ; and T4 at  $T_a = -40^{\circ}C$  to  $+85^{\circ}C$ . Enclosure Type 4X.

**APPLICABLE REQUIREMENTS**

- CAN/CSA-C22.2 No. 0-M91 - General Requirements - Canadian Electrical Code, Part II
- C22.2 No. 25-1966 - Enclosures for Use in Class II Groups E, F and G Hazardous Locations
- CAN/CSA -C22.2 No. 94-M91 - Special Purpose Enclosures
- CAN/CSA-C22.2 No. 142-M1987 (reaffirmed 1993) - Process Control Equipment (Industrial Products)
- 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-E60079-0-02 - Electrical Apparatus for Explosive Gas Atmospheres - Part 0: General Requirements
- CAN/CSA-E60079-11-02 - Electrical Apparatus for Explosive Gas Atmospheres - Part 11: Intrinsic Safety "i"
- CAN/CSA-E60079-15-02 - Electrical Apparatus for Explosive Gas Atmospheres - Part 15: Type of Protection "n"

**SPECIAL CONDITIONS FOR SAFE USE**

The equipment shall be installed in accordance with Control Drawing No. M007601.



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**MARKINGS**

- Submitter's name, tradename or CSA Master Contract number 229534;
- Model designation;
- Serial number;
- Electrical ratings;
- Hazardous locations designation;
- Reference to installation dwgs;
- Temperature code ratings;
- The statement: "Warning – Substitution of components may impair intrinsic safety";
- The symbol, "Exia";
- The statement: "Warning: Do not disconnect unless power is switched off or the area is known to be non-hazardous".

**METHOD OF MARKING** SS 304 or ALMg1 (Mg <0,6 %) plate, with laser printing. The label is screwed on at the side of the transmitter enclosure.

**ALTERATIONS**

Markings as above.

**FACTORY TESTS**

N/A.