



# Certificate of Compliance

**Certificate:** 1808890

**Master Contract:** 150861

**Project:** 2183697

**Date Issued:** May 25, 2010

**Issued to:** Detcon Incorporated

3200 Research Forest Dr Bldg A-1  
The Woodlands, TX 77381  
USA  
Attention: Bob Masi

*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.*



**Issued by:** Dorin Stochitoiu, P.Eng

**Authorized by:** Gary Boswell, P.Eng., Product Group Manager

## **PRODUCTS**

- CLASS 4828 02** - SIGNAL APPLIANCES - Toxic Gas Detection Instruments - For Hazardous Locations
- CLASS 4828 82** - SIGNAL APPLIANCES-Toxic Gas Detection Instruments - For Hazardous Locations. Certified to U.S. Standards
- CLASS 4828 01** - SIGNAL APPLIANCES - - Combustible Gas Detection Instruments-For Hazardous Locations
- CLASS 4828 81** - SIGNAL APPLIANCES-Combustible Gas Detection Instruments - For Hazardous Location-Certified to U.S. Standards



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CLASS 4828 02 and CLASS 4828 82

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

DM-700 toxic gas detector, input rated 11Vdc to 30Vdc, 85mA maximum, Explosion-proof product with integral intrinsically safe sensor, Ambient Temperature Range  $-40^{\circ}\text{C}$  to  $50^{\circ}\text{C}$ , Temperature Code T4.

PI-700 toxic gas detector, input rated 11Vdc to 30Vdc, 65mA maximum, Explosion-proof product with integral intrinsically safe sensor,  $U_m=125\text{V}$ , Ambient Temperature Range  $-20^{\circ}\text{C}$  to  $50^{\circ}\text{C}$ , Temperature Code T4.

Class I, Groups B, C and D;

TP-700 H<sub>2</sub>S and IR-700 CO<sub>2</sub> gas detectors, input rated 11Vdc to 30Vdc, 85mA maximum, Ambient Temperature Range  $-40^{\circ}\text{C}$  to  $75^{\circ}\text{C}$ , Temperature Code T4.

CLASS 4828 01

Class I, Groups B, C and D;

IR-700 combustible gas detector, input rated 11Vdc to 30Vdc, 85mA maximum, Ambient Temperature Range  $-40^{\circ}\text{C}$  to  $75^{\circ}\text{C}$ , Temperature Code T4.

CLASS 4828 81

Class I, Groups B, C and D;

FP-700, IR-700 combustible gas detectors, input rated 11Vdc to 30Vdc, 85mA maximum, Ambient Temperature Range  $-40^{\circ}\text{C}$  to  $75^{\circ}\text{C}$ , Temperature Code T4.

### **APPLICABLE REQUIREMENTS**

CSA Std. C22.2 No. 0 M91 - General Requirements - Canadian Electrical Code, Part II

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

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

CSA C22.2 No. 157-M1992 - Intrinsically Safe and Non-Incendive Equipment for Use in Hazardous Locations

CSA C22.2 No.152-M1984 - Combustible Gas Detection Instruments

UL No. 916-2007 - Energy Management Equipment

UL No. 1203-2006 - Explosion-Proof and Dust-Ignition-Proof Electrical Equipment for Use in Hazardous (Classified) Locations

UL No. 913-2008 - Intrinsically Safe Apparatus and Associated Apparatus for use in Class I, II, III, Division 1, Hazardous (Classified) Locations

ANSI/ISA-12.13.01-2000 - Performance Requirements for Combustible Gas Detectors



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**MARKINGS**

CSA monogram with C-US indicator for models DM-700, PI-700, IR-700 and TP-700

CSA monogram with US indicator for models FP-700

Submittor's name or trademark or CSA file number (adjacent the CSA Mark)

Model number

Manufacturing date or Serial number traceable to month and year of manufacture

Electrical ratings

Ambient temperature range

Hazardous location designation

Temperature code

The symbol Ex[ia]ia (as applicable)

WARNING: Substitution of components may impair intrinsic safety (as applicable)

The wording "C22.2 No. 152" (as applicable)

WARNING: Understand manual before operation (as applicable)