



CSA INTERNATIONAL

# Certificate of Compliance

Certificate: 1420405 (LR 103016-10)

Master Contract: 184981

Project: 1844878

Date Issued: 2006/10/23

Issued to: Industrial Monitoring Instr. (IMI)

A Div. of PCB Piezotronics, Inc.  
3425 Walden Ave  
Depew, NY 14043  
USA  
Attention: Richard Furner

*The products listed below are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US'*



Issued by: Ron Wildish

Authorized by: Patricia Pasemko, Operations Manager

## PRODUCTS

**CLASS 2258 84** - PROCESS CONTROL EQUIPMENT - Intrinsically Safe, Entity - - For Hazardous Locations - Certified to US Standards

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

Class I, Div. 1, Groups A, B, C and D:

Exia IIC T4; Class I, Zone 0:

AEx ia IIC T4; Class I, Zone 0:

The 'C' and 'US' indicators adjacent to the CSA Mark signify that the product has been evaluated to the applicable CSA and ANSI/UL Standards, for use in Canada and the U.S., respectively. This 'US' indicator includes products eligible to bear the 'NRTL' indicator. NRTL, i.e. National Recognized Testing Laboratory, is a designation granted by the U.S. Occupational Safety and Health Administration (OSHA) to laboratories which have been recognized to perform certification to U.S. Standards.

**PCB Cont. No. 23498-C**



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- Models 1xxAyyy, 1xxByyy and 1xxMyyy Pressure Sensors, input rated 28 Vdc max, 20 mA max; intrinsically safe with entity parameters of:  $V_{max}/U_i = 30V$ ,  $I_{max}/I_i = 200mA$ ,  $L_i = 0$ ,  $C_i = 5 nF$ ; when installed per installation Dwg. 21869; Temp. Code T4 @ Max Ambient 121 Deg C.

Notes:

1. The "xx" in the model number denotes frequency response.
2. The "yyy" in the model number denotes minor mechanical mounting variations, variations in pressure range and variations in low frequency response.

#### **APPLICABLE REQUIREMENTS**

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

UL Std No. 913 - Intrinsically Safe Apparatus and Associated Apparatus for Use in Class I, II and III, Division 1, Hazardous Locations

UL Std No. 916 - Energy Management Equipment

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"

ANSI/UL 60079-0:02 - Electrical Apparatus for Explosive Gas Atmospheres - Part 0: General Requirements

ANSI/UL 60079-11:02 - Electrical apparatus for Explosive Gas Atmospheres - Part 11: Intrinsic Safety "i"

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

**CLASS 2258 83 - PROCESS CONTROL EQUIPMENT - Intrinsically Safe and Non-Incendive Systems - For Hazardous Locations - CERTIFIED TO U.S. STANDARDS**

Ex nL IICT4; Class I, Zone 2:

AEx nA IICT4: Class I, Zone 2:

Class I, Div. 2, Groups A, B, C, D:

- Models 1xxAyyy, 1xxByyy and 1xxMyyy Pressure Sensors, input rated 28 Vdc max, 20 mA max; non-incendive,



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with entity parameters of:  $V_{max}/U_i = 30V$ ,  $I_{max}/I_i = 200mA$ ,  $L_i = 0$ ,  $C_i = 5 nF$ ; when installed per installation Dwg. 21869; Temp. Code T4 @ Max Ambient 121 Deg C.

Notes:

1. The "xx" in the model number denotes frequency response.
2. The "yyy" in the model number denotes minor mechanical mounting variations, variations in pressure range and variations in low frequency response.
3. For Canadian Installations, sensor case must be bonded to ground according to Section 18-182 of the CEC, Part 1.
4. For US Installations, sensor case must be bonded to ground according to Article 501.16 of the NEC.

**APPLICABLE REQUIREMENTS**

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

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

UL Std No. 916 - Energy Management Equipment

FM Std. No. 3600-1998 - Electrical Equipment for Use in Hazardous (Classified) Locations – General Requirements

FM Std. No. 3611-1999 - Nonincendive Electrical Equipment for Use in Class I and II, Division 2, and Class III, Divisions 1 and 2, Hazardous (Classified) Locations

CAN/CSA-E60079-15:02 - Electrical apparatus for Explosive Gas Atmospheres - Part 15: Type of Protection "n"

ANSI/UL 60079-15:02 - Electrical apparatus for Explosive Gas Atmospheres - Part 15: Electrical Apparatus with Type of Protection "n"



## *Supplement to Certificate of Compliance*

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*The products listed, including the latest revision described below, are eligible to be marked in accordance with the referenced Certificate.*

### Product Certification History

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Project	Date	Description
1844878	2006/10/23	Update to cover minor drawing Revisions.
1697653	2005/08/04	Update to Include Zone 0, Zone 2, and Div. 2 Certification; model # change to 1xxAyyy, 1xxByyy and 1xxMyyy.
1612847	2004/11/09	Update of report to cover modifications to existing Amplifier, and addition of new Amplifier

### History

1420405; June 20, 2003; Update to include entire 102Mxxx Seires. Delisting of model 100M34.

LR 103164-15; Nov. 5, 1998; Update to cover report corrections.

LR 103164-10; Mar. 25, 1998; Original Certification – Models 102M206 and 100M34.