



# Certificate of Compliance

**Certificate:** 2646142 **Master Contract:** 184981 (103164\_0\_000)  
**Project:** 70086425 **Date Issued:** 2016-10-27  
**Issued to:** **Industrial Monitoring Instr. (IMI) A Div. of PCB Piezotronics, Inc.**  
3425 Walden Ave  
Depew, New York 14043  
USA  
**Attention:** Carrie Termin

*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:** Konstantin Rybalko  
Konstantin Rybalko

## PRODUCTS

**CLASS - C225803 - PROCESS CONTROL EQUIPMENT - Intrinsically Safe and Non-Incendive Systems - For Hazardous Locations**  
**CLASS - C225883 - PROCESS CONTROL EQUIPMENT-Intrinsically Safe and Non-Incendive-Systems- For Hazardous Locations-Certified to U.S. Standards**

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

- Model EX682XYYYY Differential Charge Amplifier, input rated 28 Vdc max, 20 mA max; intrinsically safe with entity parameters at Power terminals (VDC, COM):  $V_{max} (U_i) \leq 28V$ ,  $I_{max} (I_i) \leq 100mA$ ,  $P_i \leq 0.7 W$ ,  $L_i = 10.8 \mu H$ ,  $C_i = 0 \eta F$ ; Sensor terminals (-SIG, +SIG):  $V_{oc} (U_o) \leq 28V$ ,  $I_{sc} (I_o) \leq 60 mA$ ,  $P_o \leq 0.42W$ ,  $L_o = 8 mH$ ,  $C_o = 83 \eta F$ . Intrinsically safe when installed per installation Dwg. 56543; Temperature Code T4 at maximum ambient 85°C.

### Notes:

1. The Model EX682XYYYY shall be installed in a suitable enclosure acceptable to CSA or the local authority having jurisdiction.
2. The Model EX682XYYYY can only be connected to intrinsically safe Certified equipment per installation drawing.



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The Model codes suffixes are as follows:

X = family type: A – M

YYYY = different filtering, gain, frequency response: 0-9999.

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

- Model EX682XYYYYY Differential Charge Amplifier, input rated 28 Vdc max, 20mA max; non-incendive with entity parameters at Power terminals (VDC, COM):  $V_{max} (U_i) \leq 28V$ ,  $I_{max} (I_i) \leq 100mA$ ,  $P_i \leq 0.7 W$ ,  $L_i = 10.8 \mu H$ ,  $C_i = 0 \eta F$ ; Sensor terminals (-SIG, +SIG):  $V_{oc} (U_o) \leq 28V$ ,  $I_{sc} (I_o) \leq 60 mA$ ,  $P_o \leq 0.42W$ ,  $L_o \leq 8 mH$ ,  $C_o \leq 83 \eta F$ . Refer to installation Dwg. 56543; Temperature Code T4 at maximum ambient 85°C.

Notes:

1. The Model EX682XYYYYY shall be installed in a suitable enclosure acceptable to CSA or the local authority having jurisdiction.
2. The Model EX682XYYYYY shall only be connected to non-incendive Certified equipment per installation drawing.

The Model codes suffixes are as follows:

X = family type: A – M

YYYY = different filtering, gain, frequency response: 0-9999.

**APPLICABLE REQUIREMENTS**

CAN/CSA-C22.2 No. 0-2010	- General Requirements – Canadian Electrical Code, Part II
C22.2 No. 142-M1987 (R2009)	- Process Control Equipment
CAN/CSA-C22.2 No.157-92 (R2012)	- Intrinsically Safe and Non-Incendive Equipment for Use in Hazardous Locations
C22.2 No. 213-M1987 (R2008)	- Non-Incendive Electrical Equipment for Use in Class I, Division 2 Hazardous Locations
UL 913-5 <sup>Th</sup> Edition	- Intrinsically Safe Apparatus and Associated Apparatus for Use in Class I, II and III, Division 1, Hazardous Locations
UL 916-4 <sup>Th</sup> Edition	- Energy Management Equipment
ANSI/ISA 12.12.01-2012	- Nonincendive Electrical Equipment for Use in Class I and II, Division 2 and Class III, Divisions 1 and 2 Hazardous (Classified) Locations



## *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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<b>Project</b>	<b>Date</b>	<b>Description</b>
70086425	2016-10-27	Update to report 2646142 to include schematic change.
2646142	2013-11-08	Original Certification of EX682XXXXX