



# Certificate of Compliance

**Certificate:** 1125003 (206947)

**Master Contract:** 206947

**Project:** 70071303

**Date Issued:** 2016-04-28

**Issued to:** PR Electronics A/S  
Lerbakken 10  
Ronde, 8410  
DENMARK  
Attention: Peter Bergmann

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



**Issued by:** Semyon Baum  
Semyon Baum

## **PRODUCTS**

CLASS - C225804 - PROCESS CONTROL EQUIPMENT-Intrinsically Safe, Entity - For Hazardous Locations-  
CLASS - C225884 - PROCESS CONTROL EQUIPMENT - Intrinsically Safe, Entity-- For Hazardous Locations  
- Certified to US Standards  
CLASS - C225803 - PROCESS CONTROL EQUIPMENT - Intrinsically Safe and Non-Incendive Systems - For Hazardous Locations

For details related to rating, size, configuration, etc. reference should be made to the CSA Certification Record or the descriptive report.

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

Class I, Division 1, Groups A, B, C and D  
Ex ia IIC, Ga

Models 5331D, 5333D, 5335D, 5336D, 5337D, 6331B2a, 6333B1a, 6335D2a and 6337D2a temperature transmitters; input rated 8-30V dc, 4-20mA; Input entity parameters for 5331D, 5333D, 5335D, 5336D, 5337D, 6331B2a, 6335D2a, and 6337D2a:  $U_i(V_{max})=30V$ ,  $I_i(I_{max})=120mA$ ,  $P_i=0.84W$ ,  $L_i=10\mu H$ ,  $C_i=1nF$ ; Output entity parameters for models 5335D, 5336D, 5337D, 6335D2a and 6337D2a:  $U_o(V_{oc})=9.6V$ ,  $I_o(I_{sc})=28mA$ ,  $P_o(P_{max})=67.2mW$ ,  $C_o(C_a)=3.5\mu F$ ,  $L_o(L_a)=35mH$ ; Input entity parameters for 6333B1a:  $U_i(V_{max})=30V$ ,  $I_i(I_{max})=120mA$ ,  $P_i=0.84W$ ,  $L_i=10\mu H$ ,  $C_i=6.2nF$  and Output for models for 5331D, 5333D, 6331B2a and 6333B1a: Connect to passive or non-energy storing devices such as RTD's Resistors and Thermocouples only.



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Intrinsically safe when connected according to Installation Drawings:  
5331D, 5333D, 5335D, 5336D, 5337D: 533XQC03  
6331B2a : 6331QC01  
6333B1a: 6333QC01  
6335D2a and 6337D2a: 6335QC02

Temperature Code: T6 for maximum ambient temperature of 60°C and T4 for maximum ambient temperature of 85°C.

Where: a = A (Single Channel) or B (Double Channel)

Note: The 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 2258 84 - PROCESS CONTROL EQUIPMENT - Intrinsically Safe Entity - For Hazardous Locations - Certified to US Standards

Class I, Division 1, Groups A, B, C and D  
Class I, Zone 0, AEx ia IIC, Ga

Models 5331D, 5333D, 5335D, 5336D, 5337D, 6331B2a, 6333B1a, 6335D2a and 6337D2a temperature transmitters; input rated 8-30V dc, 4-20mA; Input entity parameters for 5331D, 5333D, 5335D, 5336D, 5337D, 6331B2a, 6335D2a, and 6337D2a:  $U_i(V_{max})=30V$ ,  $I_i(I_{max})=120mA$ ,  $P_i=0.84W$ ,  $L_i=10\mu H$ ,  $C_i=1nF$ ; Output entity parameters for models 5335D, 5336D, 5337D, 6335D2a and 6337D2a:  $U_o(V_{oc})=9.6V$ ,  $I_o(I_{sc})=28mA$ ,  $P_o(P_{max})=67.2mW$ ,  $C_o(C_a)=3.5\mu F$ ,  $L_o(L_a)=35mH$ ; Input entity parameters for 6333B1a:  $U_i(V_{max})=30V$ ,  $I_i(I_{max})=120mA$ ,  $P_i=0.84W$ ,  $L_i=10\mu H$ ,  $C_i=6.2nF$  and Output for models for 5331D, 5333D, 6331B2a and 6333B1a: Connect to passive or non-energy storing devices such as RTD's Resistors and Thermocouples only.

Intrinsically safe when connected according to Installation Drawings:  
5331D, 5333D, 5335D, 5336D, 5337D: 533XQC03  
6331B2a : 6331QC01  
6333B1a: 6333QC01  
6335D2a and 6337D2a: 6335QC02

Temperature Code: T6 for maximum ambient temperature of 60°C and T4 for maximum ambient temperature of 85°C.

Where: a = A (Single Channel) or B (Double Channel)

Note: The 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 2258 03 - PROCESS CONTROL EQUIPMENT - Intrinsically Safe and Non-Incendive Systems - For Hazardous Locations

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



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Model 5333Z input rated 8-28V dc and Model 5335Z, input rated 8-30V dc, 4-20mA temperature transmitters, intrinsically safe when connected according to Installation Drawing No. 5333ZQC01 and Installation Drawing No. 5335ZQC02; Temperature Code: T6 for maximum ambient temperature of 60°C and T4 for maximum ambient temperature of 85°C.

Note: The 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.

### **APPLICABLE REQUIREMENTS**

CAN/CSA C22.2 No. 0-10	General Requirements-Canadian Electrical Code, Part II
CSA Std C22.2 No. 142-M1987(R2009)	Process Control Equipment
CSA Std C22.2 No. 157-92 (R2012)	Intrinsically Safe and Non-Incendive Equipment for Use in Hazardous Locations
CAN/CSA C22.2 No. 60079-0:11	Explosive atmospheres — Part 0: Equipment — General requirement
CAN/CSA C22.2 No. 60079-11:11	Electrical Apparatus for Explosive Gas Atmospheres – Part 11: Intrinsic Safety "i"
UL Std No. 913, Ed. 8	Intrinsically Safe Apparatus and Associated Apparatus for use in Class I, II, and III, Division 1, Hazardous (Classified) Locations
UL Std No. 916, Ed. 4	Energy Management Equipment
UL 60079-0, Ed 5	Explosive atmospheres — Part 0: Equipment — General requirement
UL Std No. 60079-11, Ed. 6	Electrical Apparatus for Explosive Gas Atmospheres - Part 11: Intrinsic Safety "i"

### **MARKINGS**

The manufacturer is required to apply the following markings:

- Products shall be marked with the markings specified by the particular product standard.
- Products certified for Canada shall have all Caution and Warning markings in both English and French.

Additional bilingual markings not covered by the product standard(s) may be required by the Authorities Having Jurisdiction. It is the responsibility of the manufacturer to provide and apply these additional markings, where applicable, in accordance with the requirements of those authorities.

Markings are on CSA accepted adhesive labels. Refer to the Descriptive Documents for details.