



# Certificate of Compliance

**Certificate:** 1125003

**Master Contract:** 206947

**Project:** 70197608

**Date Issued:** 2018-09-28

**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 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:** Ronald (Ron) Bell  
Ronald (Ron) Bell

## **PRODUCTS**

**CLASS - 225804 - 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, 5332D, 5333D, 5335D, 5336D, 5337D, 6331B2a, 6332B1a, 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

5332D:5332QC01

6331B2a: 6331QC01

6332B1a:6332QC01



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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, 5332D, 5333D, 5335D, 5336D, 5337D, 6331B2a, 6332B1a, 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

5332D: 5332QC01

6331B2a: 6331QC01

6332B1a: 6332QC01

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



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

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.

The products listed are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US' for Canada and US (indicating that products have been manufactured to the requirements of both Canadian and U.S. Standards) or with adjacent indicator 'US' for US only or without either indicator for Canada only.

### **Nameplate adhesive label material approval information:**

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



## *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**

<b>Project</b>	<b>Date</b>	<b>Description</b>
70197608	2018-09-28	Evaluation to update report 1125003 (last project 70125202) to include new type numbers 5332D and 6332B1a and add potting compound SILGEL 612.
70125202	2017-05-22	Evaluation to update Report 1125003; per only a paperwork review. Additional funds to be requested for any testing determined required.
70071303	2016-04-28	Evaluation to update report 1125003 to include PB5010 terminal blocks as replacement of PB5001. PB5010 can be SMD installed on 6331-1-07 and 6333-1-02 and 6335-1-02 PCB's. No changes are required to critical components.
70054592	2016-01-15	Evaluation to update Report 1125003 to include the update of PCB and change of supplier of enclosure. Revision update of the Descriptive Documents. No Ex components in parts list apart from the PCB and enclosure has been changed.
70012457	2014-10-21	Evaluation for update of report 1125003 to update to include an update to the existing listing to include 1 and 2 Channel versions and add the 6331B and 6333B which is the DIN rail version of the CSA approved 5331D and 5333D . Quote assumes only an evaluation to the submitted New and Revised Drawings. Additional funds and samples may be requested if testing is determined required.
2708500	2014-03-11	Update to report 1125003 to update labels with IECEx and Inmetro approvals, update pcb layouts and schematics to reflect components changes.
2643173	2013-08-22	Update to report 1125003 to add alternate enclosure for 63xx.
2327767	2011-09-14	Update of report 1125003 to include 4 new models, drawing and other minor report updates.
2243864	2009-12-09	Update of report 1125003 to include revised Label Drawing, minor component change and removal of old model number.
2057809	2008-07-11	Update report to include revised drawings.
1800201	2006-06-15	Update report to include revised drawings per project 5331-1-15.
1785800	2006-04-28	Alternate enclosure material Witcom-PC/2S-FR-ECO-S
1754524	2006-01-23	Update Report to include revised Entity Parameter of 30 Volts
1553888	2004-05-11	Update to add alternate potting compound



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1501857      2003-12-02      Report update to include Division 1 Listing for D Models.