



# Certificate of Compliance

**Certificate:** 70024231

**Master Contract:** 206947 (206947)

**Project:** 70084695

**Date Issued:** 2016-07-20

**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:** Semyon Baum  
Semyon Baum

## **PRODUCTS**

**CLASS - C225802 - PROCESS CONTROL EQUIPMENT-For Hazardous Locations-**

**CLASS - C225804 - PROCESS CONTROL EQUIPMENT-Intrinsically Safe, Entity - For Hazardous Locations-**

**CLASS - C225882 - PROCESS CONTROL EQUIPMENT-For Hazardous Locations - Certified to US Standards**

**CLASS - C225884 - PROCESS CONTROL EQUIPMENT - Intrinsically Safe, Entity-- For Hazardous Locations - Certified to US Standards**

**Class I, Division 1, Groups A, B, C, and D; Class II, Division 1, Groups E, F, and G; Class III**

**Ex ia IIC T6...T4 Ga**

**Class I, Zone 0, AEx ia IIC T6...T4 Ga**

Model 7501A.....2 and 7501B.....2 Temperature transmitters

Supply Terminal: 1,2 - Ui: 30 VDC; Ii: 120 mA; Pi: 0.84 W; Li: 0  $\mu$ H; Ci: 2 nF

Sensor Terminal: 3,4,5,6 - Uo: 9.6 VDC; Io: 28 mA; Po: 67 mW; Lo: 35 mH; Co: 3.5 $\mu$ F

Enclosure rated: IP68, Type 4X

Refer to installation drawing #7501QC01



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Temperature Ratings	
IS / Ex ia	
T4	-20/-40°C ≤ Ta ≤ 85°C
T5	-20/-40°C ≤ Ta ≤ 60°C
T6	-20/-40°C ≤ Ta ≤ 40°C

**CLASS 2258 02 - PROCESS CONTROL EQUIPMENT - For Hazardous Locations**  
**CLASS 2258 82 - PROCESS CONTROL EQUIPMENT - For Hazardous Locations**

**Class I, Division 1, Groups A, B, C and D; Class II, Division 1, Groups E, F and G; Class III:**  
**Ex d IIC T6...T4 Gb**  
**Class I, Zone 1, AEx d IIC T6...T4 Gb**

7501A.....2 Series Temperature transmitters rated 10 – 35 VDC, 23mA. Enclosure rated: IP68, Type 4X. Refer to installation drawing #7501QC01

Only third party certified sensors suitable for Class I, Division 1 Groups ABCDEFG or Zone 1, IIC may be attached to the 7501 Temperature Transmitter without additional approval of the combination.

Only Blind Plugs type 8550-xxx and 8551-xxx supplied with the 7501 or third party certified Blind Plugs suitable for the application and correctly installed may be used

Temperature Ratings	
XP / Ex d / DIP	
T4	-20°C/-40°C ≤ Ta ≤ 85°C**
T5	-20°C/-40°C ≤ Ta ≤ 85°C**
T6	-20°C/-40°C ≤ Ta ≤ 70°C**

**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 for use in Class Associated Apparatus 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"



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CAN/CSA C22.2 No. 25-1966	Enclosures for Use in Class II, Groups E, F and G Hazardous Locations
CAN/CSA C22.2 No. 30-M1986	Explosion-Proof Enclosures for Use in Class I Hazardous Locations
CAN/CSA C22.2 No. 94-M91	Special Purpose Enclosures
CAN/CSA 60079-1:11	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d" - Second Edition
C22.2 No. 60529:05	Degree of Protection Provided by Enclosures (IP Code)
FM 3600	Electrical Equipment for Use in Hazardous (Classified) Locations General Requirements.
FM 3615	Explosionproof Electrical Equipment for Hazardous (Classified) Locations
FM 3810	Electrical And Electronic Test Measuring, and Process Control Equipment
ANSI/ISA-12.00.01	Electrical Apparatus for Use in Class I, Zone 1 Hazardous (Classified) Locations Type of Protection - Flameproof "d"
ANSI/IEC 60529	Degrees of Protection Provided by Enclosures (IP Code)

### **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 information as shown below and appear on a metal nameplate or adhesive aluminum foil which is secured to enclosure by screws. Separate labels markings are required for Division and Zone.

- Manufacturer's name: "PR Electronics", or CSA Master Contract Number "206947", adjacent to the CSA Mark in lieu of manufacturer's name.
- Model number: As specified in the PRODUCTS section, above.
- Electrical ratings: As specified in the PRODUCTS section, above.
- Ambient temperature rating: As specified in the PRODUCTS section, above.
- Manufacturing date in MMY format, or serial number, traceable to year and month of manufacture.
- Enclosure ratings: As specified in the PRODUCTS section, above.
- The CSA Mark, as shown on the Certificate of Conformity.
- Hazardous Location designation: As specified in the PRODUCTS section, above (may be abbreviated).
- Temperature code: As specified in the PRODUCTS section, above.
- The following words:
  - "OPEN CIRCUIT BEFORE REMOVING COVER" and "OUVRIER LE CIRCUIT AVANT D'ENLEVER LE COUVERCLE", or "KEEP COVER TIGHT WHILE CIRCUITS ARE ALIVE" and "GARDER LE COUVERCLE BIEN FERME TANT QUE LES CIRCUITS SONT SOUS TENSION" or the equivalent
  - "INTRINSICALLY SAFE" and "SÉCURITÉ INTRINSÉQUE"
  - "Exia"



## *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>
70084695	2016-07-20	Evaluation to update Report 70024231 to include an alternate O-ring. Accepted per submitted IEC Ex /ATEX information.
70049932	2015-11-18	Evaluation for the update of report 70024231 to addition of Sensor-Enclosure approval requirements to the certificate, addition of B lind Plugs to the certificate, type 8550-xxx and 8551-xxx supplied with the 7501, addition of Stainless Steel enclosure for Intrinsic Safe Installation only, addition of alternate filter capacitors.
70024231	2015-08-21	Original certification of Models 7501 temperature transmitter. cCSAus certification.