



Certificate of Compliance

Certificate: 1706327 (087499_0_000)

Master Contract: 180737

Project: 70045372

Date Issued: 2016 01 07

Issued to: **K-Patents OY**
PL 77
Vantaa, 01511
FINLAND

Attention: Veikko Kähkönen

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



Issued by: Siros Ghanbar-zadeh
Siros Ghanbarzadeh

PRODUCTS

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

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

Inline refractometer, Series PR-23, permanently connected, rated 24 Vdc, 60 mA. Temperature code T4.

CONDITIONS OF ACCEPTABILITY

The equipment is evaluated for an ambient temperature of -20 °C to 45 °C.

The refractometer sensor (PR-23) should only be used in combination with the Indicating Transmitter DTR.



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APPLICABLE REQUIREMENTS

CAN/CSA-C22.2 No. 61010.1-04	Safety Requirements for Electrical Equipment for Measurement, Control and Laboratory Use, Part 1; General Requirements
CAN/CSA-C22.2 No. 213-M87	Non-Incendive Electrical Equipment for Use in Class I, Division 2 Hazardous Locations
IEC 60529	Degrees of protection provided by enclosures
CAN/CSA-C22.2 No. 94-M91	Special Purpose Enclosures
CAN/CSA-C22.2 No. 94.2-07	Enclosures for electrical equipment, environmental considerations

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 following markings appear on the product:

1. Submitter's identification (company name and/or file number and/or registered tradename);
2. Model designation;
3. Date of manufacture (or traceable serial number);
4. The CSA Monogram;
5. Hazardous area : Class I, Division 2, Groups A, B, C and D;
6. Ingress Protection IP67; Type 4X
7. Maximum Ambient temperature;
8. Temperature code.



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

Project	Date	Description
70045372	2016-01-07	Update to Minor design change of the electronics enclosure PR-23 SERIES and addition of model PR-23 GC.
2696727	2014-06-19	Update to project 1706327 to include the addition of new models PR-23-MS/-SD/-RP with minor changes.
1706327	2005-08-25	Original Certification of Inline Refractometer Models PR-23.