



Certificate of Compliance

Certificate: 70081253

Master Contract: 180737 (087499_0_000)

Project: 70167383

Date Issued: 2018-03-28

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 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: *Albert Jansen*
Albert Jansen

PRODUCTS

CLASS 2258 02 - PROCESS CONTROL EQUIPMENT – For Hazardous Locations

CLASS 2258 82 - PROCESS CONTROL EQUIPMENT – For Hazardous Locations – Certified to US Standards

Ex nA IIC T4 Gc;

Class I, Zone 2, AEx nA IIC T4 Gc;

Class I, Division 2, Groups A, B, C and D, T4;

-Sanitary Process Refractometer models PR-43-AC, PR-43-PC, PR-43-AP, PR-43-PP, PR-43-GC, PR-43-GP and, rated +24Vdc, max 2W ,4-20mA (maximum load 1000Ω); Type 4X. For use in an ambient temperature range of: -40°C to +65°C.

Note:

-To be supplied by a Class 2 or Limited Energy Source in accordance with CSA 61010-1-12/UL 61010-1.



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APPLICABLE REQUIREMENTS

C22.2 No. 0 M1991	-	General Requirements – Canadian Electrical Code Part II
CAN/CSA 61010-1-12	-	Safety Requirements for Electrical Equipment for Measurement, Control and Laboratory Use - Part 1: General Requirements - Third Edition
ANSI/UL 61010-1	-	Safety Requirements for Electrical Equipment for Measurement, Control and Laboratory Use - Part 1: General Requirements - Third Edition
C22.2 No. 213-15/ ANSI-12.12.01-2015	-	Nonincendive Electrical Equipment for use in Class I and II Division 2 and Class III, Divisions 1 and 2 Hazardous Locations
CAN/CSA 60079-0:15 (IEC 60079-0:2011)	-	Explosive atmospheres - Part 0; General Requirements
CAN/CSA 60079-15:16(IEC 60079-15:2010)	-	Explosive atmospheres - Part 15; Equipment protection by type of protection “n”
UL 60079-0:13 (IEC 60079-0:2011)	-	Explosive atmospheres - Part 0; General Requirements
UL 60079-15:13 ((IEC 60079-15:2010)	-	Explosive atmospheres - Part 15; Equipment protection by type of protection “n”
CSA C22.2 No. 94.2-15, Second Edition	-	Enclosures for Electrical Equipment, Environmental Considerations
UL 50E, Second Edition	-	Enclosures for Electrical Equipment, Environmental Considerations



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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 without an indicator for Canada only (indicating that products have been manufactured to the requirements of Canadian Standards).

The following markings appear on adhesive label affixed on the product bearing the following marking information (drawing 4142):

- Submitter's Name or Master Contract Number 180737.
- Model number.
- Serial number.
- Complete electrical ratings.
- Hazardous Locations area marking
- Ambient Temperature.
- Temperature Code
- Type Rating (Type 4X)
- The following caution markings shall appear in the Instruction Operational Manual:
 - WARNING - EXPLOSION HAZARD – DO NOT DISCONNECT WHILE THE CIRCUIT IS LIVE OR UNLESS THE AREA IS KNOWN TO BE FREE OF IGNITIBLE CONCENTRATIONS



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
70167383	2018-03-28	Upgrade all models from Type 4 to Type 4X rating. Update several drawings. Add variant to model PR-43-GP, designated "PR-43-GP-K88-P25".
70081253	2017-03-07	Original certification of PR-43-xx series for Class I Div.2 and Class I Zone 2 . Addition of Class 2258 82



CERTIFICATION RECORD

The company named below has been authorized by CSA International to represent the products listed in this record as "CSA Certified" and to affix the CSA Mark to these products according to the terms and conditions of the CSA Service Agreement and applicable CSA program requirements (including additional Markings).

File No: 213862
Class No: 2258 02 PROCESS CONTROL EQUIPMENT For Hazardous Locations

SUBMITTOR

4669224 Vaisala Oyj
PO Box 26
Helsinki, . 00421
Finland

FACTORIES

6003614 Vaisala Oyj
Vanha Nurmijarventie 21
Vantaa, . 01670
Finland

November 1, 2019 (Replaces: March 28, 2018)

- Inline refractometer, Series PR-23, permanently connected, rated 24 Vdc, 100 mA, Class I, Division 2, Groups A, B, C and D, T4.

Ex nA IIC T4 Gc;
Class I, Zone 2, AEx nA IIC T4 Gc;
Class I, Division 2, Groups A, B, C and D, T4;

Sanitary Process Refractometer models PR-43-AC, PR-43-PC, PR-43-AP, PR-43-PP, PR-43-GC, PR-43-GP and, rated +24Vdc, max 2W, 4-20mA (maximum load 1000Ω). Type 4X. For use in an ambient temperature range of: -40°C to +65°C.

Note:

-To be supplied by a Class 2 or Limited Energy Source in accordance with CSA 61010-1-12/UL 61010-1.



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File No: 213862
Class No: 2258 82 PROCESS CONTROL EQUIPMENT For Hazardous Locations
- Certified to US Standards

SUBMITTOR

4669224 Vaisala Oyj
PO Box 26
Helsinki, . 00421
Finland

FACTORIES

6003614 Vaisala Oyj
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November 1, 2019 (Replaces: March 28, 2018)

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