



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: IECEx EESF 19.0026X

Issue No: 0

Certificate history:

[Issue No. 0 \(2019-08-30\)](#)

Status: **Current**

Page 1 of 4

Date of Issue: **2019-08-30**

Applicant: **Vaisala Oyj**
Vanha Nurmijärventie 21
01670 Vantaa
Finland

Equipment: **Process refractometers PR-43-AC, PR-43-PC, PR-43-AP, PR-43-GC, PR-43-GP and PR-43-PP**

Optional accessory:

Type of Protection: **Non-sparking "nA"**

Marking:

Ex nA IIC T4 Gc

Tamb -40 °C...+65 °C

*Approved for issue on behalf of the IECEx
Certification Body:*

Kari Koskela

Position:

Expert

*Signature:
(for printed version)*

Date:

30.8.2019

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting the [Official IECEx Website](#).

Certificate issued by:

Eurofins Expert Services Oy
Kivimiehentie 4,
FI-02150 Espoo
Finland



Expert Services



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Certificate No: IECEX EESF 19.0026X

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Page 2 of 4

Manufacturer: **Vaisala Oyj**
Vanha Nurmijärventie 21
01670 Vantaa
Finland

Additional Manufacturing location(s):

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended.

STANDARDS:

The apparatus and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:

IEC 60079-0 : 2017 Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

IEC 60079-15 : 2010 Explosive atmospheres - Part 15: Equipment protection by type of protection "n"
Edition:4

*This Certificate **does not** indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.*

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in

Test Report:

[FI/EESF/ExTR19.0028/00](#)

Quality Assessment Report:

[FI/EESF/QAR19.0011/00](#)



IECEX Certificate of Conformity

Certificate No: IECEx EESF 19.0026X

Issue No: 0

Date of Issue: 2019-08-30

Page 3 of 4

Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

PR-43-AC, PR-43-PC, PR-43-AP, PR-43-GC, PR-43-GP and PR-43-PP Refractometers are process measurement instruments intended for measuring concentration of process liquids by means of optical refractive index measurement. The instruments are microcontroller-based with several auxiliary measurement functions (internal temperature, humidity, etc.).

Electrical data

Un = 24 V

SPECIFIC CONDITIONS OF USE: YES as shown below:

The allowed ambient temperature range is Tamb -40 °C ... +65 °C.



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Certificate No: IECEx EESF 19.0026X

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Date of Issue: **2019-08-30**

Page 4 of 4

EQUIPMENT (continued):

IECEX VTT 15.0022X: Prime certificate

Issue 1: Introduction of new types PR-43-GC and PR-43-GP. Alternative " Large LED card" added. New document revisions.

Issue 2: Introduction of the Cooling Cover option. Minor material, mechanical and electrical changes.

IECEX EESF 19.0026X: Vaisala Oyj has acquired K-Patents Oy and it's Ex products. Manufacturing location has been changed to Vaisala's facilities. ExCB name changed from VTT Expert Services to Eurofins Expert Services.