



# 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](http://www.iecex.com)

Certificate No.:	IECEX KEM 10.0033X	Issue No: 2	<u>Certificate history:</u> Issue No. 2 (2015-06-24) Issue No. 1 (2013-10-14) Issue No. 0 (2010-04-08)
Status:	Current	Page 1 of 4	
Date of Issue:	2015-06-24		
Applicant:	K-PATENTS OY Elannontie 5 01510 Vantaa Finland		
Electrical Apparatus: <i>Optional accessory:</i>	Process Refractometer Series PR-23		
Type of Protection:	Ex nA		
Marking:	Ex nA IIC T4 Gc		

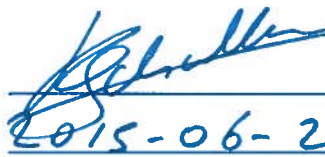
Approved for issue on behalf of the IECEx  
Certification Body:

R. Schuller

Position:

Certification Manager

Signature:  
(for printed version)



Date:

2015-06-24

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](http://www.iecex.com).

Certificate issued by:

DEKRA Certification B.V.  
Meander 1051  
6825 MJ Arnhem  
The Netherlands





# IECEX Certificate of Conformity

Certificate No: IECEX KEM 10.0033X

Issue No: 2

Date of Issue: 2015-06-24

Page 2 of 4

Manufacturer: K-PATENTS OY  
Elannontie5  
01510 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 electrical 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 : 2011 Explosive atmospheres - Part 0: General requirements  
Edition:6.0

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:

[NL/KEM/ExTR10.0025/00](#)

[NL/KEM/ExTR10.0025/01](#)

[NL/KEM/ExTR10.0025/02](#)

#### Quality Assessment Report:

[NL/DEK/QAR12.0032/02](#)



# IECEx Certificate of Conformity

Certificate No: IECEx KEM 10.0033X

Issue No: 2

Date of Issue: 2015-06-24

Page 3 of 4

## Schedule

### EQUIPMENT:

*Equipment and systems covered by this certificate are as follows:*

The Process Refractometer Series PR-23-XX is used for inline measuring of a liquid concentration. The measurement is based on the refraction of light in the process medium.

\* XX substitutes AC, AP, GC, GP, MS, SD, RP, M or W.

The enclosure provides a degree of protection of at least IP54 according to IEC 60529.

Ambient temperature range: -20 °C to +65 °C

Maximum process temperature: 150 °C

### Electrical Data:

Supply: 24 Vdc, max. 60 mA.

**CONDITIONS OF CERTIFICATION: YES as shown below:**

Provisions shall be made to prevent the rated voltage from being exceeded by transient disturbances of more than 40%.



# IECEX Certificate of Conformity

Certificate No: IECEx KEM 10.0033X

Issue No: 2

Date of Issue: 2015-06-24

Page 4 of 4

## DETAILS OF CERTIFICATE CHANGES (for Issues 1 and above):

Assessment in accordance with Corrigendum 1 : 2012 and Corrigendum 2 : 2013 to IEC 60079-0 : 2011 ; the range of series PR-23 has been extended with a new model PR-23-GC; the ambient temperature range of the Process Refractometer Series PR-23 has been reduced to -20°C .... +65°C ; changed sensor head sealing.