



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 IBE 10.0003X issue No.:0 Certificate history:.....

Status: **Current**

Date of Issue: **2011-03-08** Page 1 of 4

Applicant: **FLEXIM Flexible Industriemesstechnik GmbH**
Wolfener Straße 36
12681 Berlin
Germany

Electrical Apparatus: **Refractometer PIOX**
Optional accessory:

Type of Protection: **Intrinsic Safety "i"**

Marking: **Ex ia IIB T4; [Ex ia] IIB**
Ex ib IIC T4; [Ex ib] IIC

Approved for issue on behalf of the IECEx Certification Body: Prof. Dr. Tammo Redeker

Position: Head of Certification Body

Signature:
(for printed version)

Date:

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:

IBExU Institut für Sicherheitstechnik GmbH
Certification Body
Fuchsmühlenweg 7
09599 Freiberg
Germany



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Manufacturer: **FLEXIM Flexible Industriemesstechnik GmbH**
Wolfener Straße 36
12681 Berlin
Germany

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 : 2007-10 Explosive atmospheres - Part 0: Equipment - General requirements
Edition: 5

IEC 60079-11 : 2006 Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition: 5

IEC 60079-26 : 2006 Explosive atmospheres - Part 26: Equipment with equipment protection level (EPL) Ga
Edition: 2

*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:

[DE/IBE/ExTR10.0003/00](#)

Quality Assessment Report:

[DE/TUN/QAR08.0002/01](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

General product information:

The Refractometers PIOX® are intended for the determination of the parameters of media which consist of liquids and gases. The apparatus consists of two independent components, transmitter and sensor. The components have their own enclosure and can be operated over long distances (up to circa 100 m).

The sensor makes the actual measurement of the refractive index and the temperature and makes them available to the transmitter via a digital interface. The transmitter supplies the sensor with power, calculates the primary data with the medium parameters defined by the operator and makes them available to the operator in the desired form via suitable interfaces. The operator can then implement the transmitter in its process control environment with the help of these interfaces.

CONDITIONS OF CERTIFICATION: YES as shown below:

Special conditions for safe use

The circuits are galvanically linked to each other. The equipotential bonding must be ensured inside and outside the hazardous area during the installation and operation of the equipment. The specifications in the operating instruction have to be observed.

