



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 TUN 09.0010** issue No.: **0** Certificate history:

Status: **Current**

Date of Issue: **2011-05-05** Page 1 of 3

Applicant: **Elster GmbH**
Steinern Straße 19-21
55252 Mainz-Kastel
Germany

Electrical Apparatus: **Volume conversion device EK220**
Optional accessory:

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

Marking: **Ex ia [ia] IIC T4**

Approved for issue on behalf of the IECEx
Certification Body:

Mr. K.-H. Schwedt

Position:

Head of IECEx Certification Body

Signature:
(for printed version)

Date:

2011-05-05

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:

TÜV NORD CERT GmbH
Hanover Office
Am TÜV 1
30519 Hannover
Germany





IECEx Certificate of Conformity

Certificate No.: IECEx TUN 09.0010

Date of Issue: 2011-05-05

Issue No.: 0

Page 2 of 3

Manufacturer: **Elster GmbH**
Steinern Straße 19-21
55252 Mainz-Kastel
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 : 2004 Electrical apparatus for explosive gas atmospheres - Part 0: General requirements
Edition: 4.0
IEC 60079-11 : 2006 Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition: 5

*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/TUN/ExTR09.0011/00

Quality Assessment Report:

DE/TUN/QAR11.0003/00



IECEX Certificate of Conformity

Certificate No.: IECEx TUN 09.0010

Date of Issue: 2011-05-05

Issue No.: 0

Page 3 of 3

Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The volume conversion device type EK220 is an explosion-proof electronic device that meets the requirements of zone 1. The device determines and displays the volume at base conditions of a gas volume, which is measured by an external gas meter under operating conditions, using the state variables pressure and temperature. For the different applications the EK220 may be assembled with two, one, or none pressure sensors (0...2 p-sensors) and with one or none temperature sensors. For the supply a battery is used. Two types of batteries are specified in "09 204 555495_electrical data for IEC-COC".

CONDITIONS OF CERTIFICATION: NO