



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 KEM 10.0094X

Issue No: 3

Certificate history:

Status: Current

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Issue No. 3 (2015-12-10)

Date of Issue: 2015-12-10

Issue No. 2 (2015-04-30)

Issue No. 1 (2014-03-21)

Issue No. 0 (2010-12-31)

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

Electrical Apparatus: Gas Analyzer type ENCAL 3000

Optional accessory:

Type of Protection: Ex d

Marking: Ex db IIC T6 Gb

Approved for issue on behalf of the IECEx
Certification Body:

T. Pijpker

Position:

Certification Manager

Signature:
(for printed version)

Date:

2015-12-10

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





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

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
Edition:6.0

Explosive atmospheres - Part 0: General requirements

IEC 60079-1 : 2014-06
Edition:7.0

Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"

*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/ExTR10.0103/00

NL/KEM/ExTR10.0103/01

NL/KEM/ExTR10.0103/02

Quality Assessment Report:

DE/TUN/QAR11.0003/00

DE/TUN/QAR11.0003/01

DE/TUN/QAR11.0003/02



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

Description

The Gas Analyzer type ENCAL 3000 is used to measure the concentrations of the different components of a gas.

Ambient temperature range 0 °C to +55 °C.

Optional temperature extension with internal heating -20°C to +55°C.

Optional temperature extension with internal heating and external insulation -40°C to +55°C

Electrical data

Power supply : 24 Vdc, 50 W, nominal non-heated and 120 W nominal heated version

CONDITIONS OF CERTIFICATION: YES as shown below.

The flameproof enclosure shall not be opened when an explosive gas atmosphere may be present.

The process pressure shall be limited to 2 MPa to ensure that the overpressure inside the flameproof enclosure remains below 10 kPa.

For information on the dimensions of the flameproof joints the manufacturer shall be contacted.



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):

- Adding breathing element (sinter) to enclosure
- Testing for gas group IIC
- Artidor breather bulkhead AR 81 removed from certificate for gas group IIC.

NOT UP-TO-DATE
www.docuthek.com