



# 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 DEK 11.0054

Issue No: 1

Certificate history:

Status: **Current**

[Issue No. 1 \(2017-12-11\)](#)

[Issue No. 0 \(2012-08-30\)](#)

Date of Issue: **2017-12-11**

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Applicant: **Knick Elektronische Messgeräte GmbH & Co. KG**  
Beuckestrasse 22  
14163 Berlin  
**Germany**

Equipment: **Modular Analyzing System Protos Type 3400 X \*/\*\*\***

*Optional accessory:*

Type of Protection: **Ex e, Ex i, Ex m, Ex t**

Marking:

Ex eb ib mb [ia Ga] IIC T4 Gb,  
Ex ec ib mb [ia Ga] IIC T4 Gc,  
Ex ib tb [ia Da] IIIC T 70 °C Db

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

L.G. van Schie

*Position:*

Certification Manager

*Signature:  
(for printed version)*

*Date:*

2017-12-11

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:

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





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Manufacturer: **Knick Elektronische Messgeräte GmbH & Co. KG**  
Beuckestrasse 22  
14163 Berlin  
**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:

<b>IEC 60079-0 : 2011</b> Edition:6.0	Explosive atmospheres - Part 0: General requirements
<b>IEC 60079-11 : 2011</b> Edition:6.0	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
<b>IEC 60079-31 : 2013</b> Edition:2	Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
<b>IEC 60079-7 : 2015</b> Edition:5.0	Explosive atmospheres – Part 7: Equipment protection by increased safety "e"

*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/DEK/ExTR11.0058/01](#)

Quality Assessment Report:

[DE/TUN/QAR06.0016/07](#)



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## Schedule

### EQUIPMENT:

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

The Modular Analyzing System Protos Type 3400 X \* / \*\*\* is intended to record and process electrochemical data in the fluid analysis. By using exchangeable measuring and interface modules, the system can be configured to provide the required measuring and control functions in the analytical techniques. In the polished or polyester coated stainless steel housing with the power supply Protos Type BASE 3400 X \* / \*\*\*, up to three measuring and interface modules can be mounted. On the front panel of the door Protos Type FRONT 3400 X \* - 01\* the keyboard and LC-display is provided, on the rear panel a SmartMedia-Card slot is located.

The complete System Protos 3400 X \* / \*\*\* consists of the power supplies, door and measuring and interface modules as shown in the attachment.

Included are terminals certified per IECEx KEM 07.0019U in accordance with 60079-0:2011 & 60079-7:2006; No applicable Technical Differences found during re-evaluation.

Ambient temperature range -20 °C to +50 °C.

The door FRONT 3400 X \* / \*\*\* may be opened for a short time in order to change the SmartMedia-card.

The maximum surface temperature of the housing T 70 °C is based on a maximum ambient temperature of +50 °C.

### Electrical data

See attachment.

**SPECIFIC CONDITIONS OF USE: NO**



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

- Update of the IEC 60079-0, 60079-7, 60079-18 and 60079-31 standards.
- Change type of protection Ex nA nC to Ex ec mb.
- Introduction of a new front unit.

**Annex:**

[219438900-ExTR11.0058.01-Attachment.pdf](#)