



# 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 KIWA 18.0014X

Issue No: 0

Certificate history:

Issue No. 0 (2019-01-09)

Status: **Current**

Page 1 of 4

Date of Issue: **2019-01-09**

Applicant: **SAMSON AKTIENGESELLSCHAFT**  
Weismüllerstraße 3  
60314 Frankfurt  
Germany

Equipment: **Position Transmitter, Type 4749**

Optional accessory:

Type of Protection: **Ex ia**

Marking:

Ex ia IIC T6...T4 Gb  
Ex ia IIIC T85 °C Db

Approved for issue on behalf of the IECEx  
Certification Body:


Pieter van Breugel

Position:

Certification Officer

Signature:  
(for printed version)

Date:

  
9<sup>th</sup> of January

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:

Kiwa Nederland B.V. (Unit Kiwa ExVision)  
Wilmsdorf 50  
7327 AC Apeldoorn  
P.O. Box 137  
The Netherlands





# IECEx Certificate of Conformity

Certificate No: IECEx KIWA 18.0014X

Issue No: 0

Date of Issue: 2019-01-09

Page 2 of 4

Manufacturer: **SAMSON AKTIENGESELLSCHAFT**  
Weismüllerstraße 3  
60314 Frankfurt  
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 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 60079-11 : 2011** Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"  
Edition:6.0

*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/KIWA/ExTR18.0017/00](#)

Quality Assessment Report:

[DE/TUN/QAR06.0011/08](#)



# IECEx Certificate of Conformity

Certificate No: IECEx KIWA 18.0014X

Issue No: 0

Date of Issue: 2019-01-09

Page 3 of 4

## Schedule

### EQUIPMENT:

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

The Position Transmitter Type 4749 is mounted on control valves and converts the lifting or rotating movements of the valve drive into a 4-20 mA current signal.

The position transmitter enclosure is provided with a threaded cover and can be of aluminium or stainless steel.

Maximum ambient temperature for T6 and T85 °C: +55 °C

Maximum ambient temperature for T5: +70 °C

Maximum ambient temperature for T4: +80 °C

Minimum ambient temperature: -40 °C

The Position Transmitter enclosure provides a degree of protection of IP66 in accordance with IEC 60529.

### Type designation

#### 4749-abcde

##### a: Approvals

111 (Intrinsically safe IECEx)

##### b: Options

0 (position transmitter 4 - 20 mA)

##### c: Reserved

X (not safety relevant)

##### d: Field wiring entry

0 (M20x1,5)

1 (NPT 1/2")

##### e: Enclosure material

0 (aluminium)

1 (stainless steel)

### SPECIFIC CONDITIONS OF USE: YES as shown below:

For the applicable ambient temperature range, refer to the equipment description section.

For EPL Db:

- The equipment shall be installed and maintained such that hazards caused by electrostatic discharge are excluded;
- Heat resisting cables and cable glands, suitable for a temperature of at least 20 K higher than the max. ambient temperature shall be used.



# IECEx Certificate of Conformity

Certificate No: IECEx KIWA 18.0014X

Issue No: 0

Date of Issue: 2019-01-09

Page 4 of 4

## EQUIPMENT (continued):

### Electrical Data

Supply and output circuit (terminals +31, -32):

in type of protection intrinsic safety Ex ia IIC, only for connection to a certified intrinsically safe circuit, with the following maximum values:

$U_i = 28 \text{ V}$ ;  $I_i = 115 \text{ mA}$ ;  $P_i = 1.0 \text{ W}$ ;  $C_i = 19.2 \text{ nF}$ ;  $L_i = 0 \text{ mH}$