CERTIFICATE

1 EU – Type Examination Certificate

2 Equipment or Protective System Intended for use in Potentially Explosive Atmospheres
Directive 2014/34/EU

3 EU – Type Examination Certificate Number: **KIWA 19ATEX0038 X Issue: 1**

4 Product: **Position Transmitter Type 4749**

5 Manufacturer: **SAMSON AKTIENGESELLSCHAFT**

6 Address: **Weismüllerstraβe 3, 60314 Frankfurt**
Germany

7 This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

8 Kiwa Nederland B.V., Notified Body number 0620 in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.
The examination and test results are recorded in confidential ATEX Assessment Report No. 190701457.

9 Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
EN 60079-0 : 2012 + A11 : 2013 **EN 60079-1 : 2014** **EN 60079-11 : 2012**
EN 60079-31 : 2014

10 If the sign "X" is placed after the certificate number, it indicates that the product is subject to the Specific Conditions of Use specified in the schedule to this certificate.

11 This EU – Type Examination Certificate relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

12 The marking of the product shall include the following:

II 2 G Ex ia IIC T6…T4 Gb
II 2 D Ex ia IIIC T85 °C Db
or
II 2 G Ex db IIC T6…T4 Gb
II 2 D Ex tb IIIC T80 °C Db

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Kiwa Nederland B.V.

Ronald Karel
Managing Director

Issue date: 10 October 2019

First issue: ---

This certificate shall, as far as applicable, be revised before the date of cessation of presumption of conformity of (one of) the included standards above as communicated in the Official Journal of the European Union.

13 # SCHEDULE

14 ## EU – Type Examination Certificate KIWA 19ATEX0038 X Issue No. 1

15.1 Description of Product

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 aluminum or stainless steel.

Type of protection	T-class	Ambient temperature range
Ex ia IIC	T6	-40 °C to +55 °C
	T5	-40 °C to +70 °C
	T4	-40 °C to +80 °C
Ex ia IIIC	T85 °C	-40 °C to +55 °C
Ex db IIC	T6	-55 °C to +65 °C
	T5	-55 °C to +80 °C
	T4	-55 °C to +85 °C
Ex tb IIIC	T80 °C	-55 °C to +65 °C

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

Type designation

4749-abcde

a: Approvals
    180 (Intrinsically safe / Explosion proof ATEX)
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)

15.2 Electrical Data

Type of protection db or tb:
Power supply: 12-28 Vdc, 4-20 mA.

Type of protection ia:
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:
Ui = 28 V; Ii = 115 mA; Pi = 1,0 W; Ci = 19,2 nF; Li = 0 mH

13 # SCHEDULE

14 ## EU – Type Examination Certificate KIWA 19ATEX0038 X Issue No. 1

15.3 **Instructions**

The instructions provided with the product shall be followed in detail to assure safe operation.

16 **ATEX Assessment Report Number**

190701457.

17 **Specific Conditions of Use**

- For the applicable ambient temperature range, refer to the Equipment section above;
- For Type of protection Ex db: The flameproof joints are not intended to be repaired;
- For Type of protection Ex tb and Ex ia IIIC: The equipment shall be installed and maintained such that hazards caused by electrostatic discharge are excluded;
- For Type of protection Ex db, Ex tb and Ex ia IIIC: Heat resisting cables and cable glands, suitable for a temperature of at least 20 K higher than the max. ambient temperature shall be used.

18 **Essential Health and Safety Requirements**

All relevant Essential Health and Safety Requirements are covered by the standards listed at section 9.

19 **Drawings and Documents**

As listed in ATEX Assessment Report No. 190701457.