



## CONFORMITY STATEMENT (Translation)

(1)

(2) Equipment and Protective Systems Intended for Use in  
Potentially Explosive Atmospheres - **Directive 2014/34/EU**

(3) Test Certificate Number:

**PTB 03 ATEX 2180 X**

**Issue: 01**

(4) Product: HART capable positioner Typ 3730-38..

(5) Manufacturer: SAMSON AG Mess- und Regeltechnik

(6) Address: Weismüllerstraße 3, 60314 Frankfurt, Deutschland

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

(8) The Physikalisch-Technische Bundesanstalt, notified body No. 0102 in accordance with Article 17 of the 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 the confidential test report PTB Ex 16-25138.

(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:  
**EN 60079-0:2012/A11:2013 EN 60079-15:2010 EN 60079-31:2014**

(10) If the sign "X" is placed after the certificate number, it indicates that the product is subject to special conditions for safe use specified in the schedule to this certificate.

(11) This Conformity Statement relates only to the design and construction of the specified product in accordance with Directive 94/9/EC. Further requirements of this Directive apply to the manufacture and supply of this product.

(12) The marking of the product shall include the following:



**II 3 G Ex nA IIC T6 Gc und  
II 3 D Ex tc IIIC T80 °C Dc**

Konformitätsbewertungsstelle - Sektor Explosionsschutz  
On behalf of PTB:

Braunschweig, June 30, 2016

Dr.-Ing. U. Gerlach  
Regierungsdirektor



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Conformity Statements without signature and official stamp shall not be valid. The certificates may be circulated only without alteration. Extracts or alterations are subject to approval by the Physikalisch-Technische Bundesanstalt. In case of dispute, the German text shall prevail.

(13)

## SCHEDULE

(14)

### CONFORMITY STATEMENT PTB 03 ATEX 2180 X, Ausgabe: 01

(15) Description of the product

The HART capable positioner type 3730-38.. is a communication capable, single respectively double operating positioner for the attachment to all common lift or slewing-motion actuators. It is intended to assign the valve position to an actuating signal. The communication is carried out by using SSP and HART protocols. As a pneumatic auxiliary power non-combustible media are used.

The operation takes place inside or outside hazardous areas.

In the future the HART capable positioner type 3730-38.. may also be manufactured and operated according to the test documents listed in the test report.

The thermal and electrical maximum values are presented in summary.

For relationship between temperature class and permissible ranges of the ambient temperature, reference is made to the following table:

Gas or dust group	Temperature class	Permissible range of the ambient temperature
IIC	T6	-55 °C ... 60 °C
	T5	-55 °C ... 70 °C
	T4	-55 °C ... 80 °C
IIIC	-	-55 °C ... 80 °C

#### Electrical data

Signal circuit .....  
 (Terminals 11/12).....Nominal signal: 4 ... 20 mA  
 .....Rated voltage: 32 V DC ... 85 V DC

Position indicator .....  
 (Terminals 31/32).....Outputsignal: 4 ... 20 mA  
 .....Rated voltage: 32 V DC ... 85 V DC

Sensor connection .....  
 (Terminals 31/32).....inner capacitance 1,4 nF

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# SCHEDULE TO EU-TYPE EXAMINATION CERTIFICATE PTB 03 ATEX 2180 X, Issue: 01

Binary input.....		
(Terminals 31/32).....	Nominal signal:	6 ... 30 V DC
.....	Rated voltage:	32 V DC ... 85 V DC
Limit contact, inductive .....		
(Terminals 41/42).....	Nominal signal:	8 V DC, 8 mA
Limit contacts, software .....		
(Terminals 41/42).....	Nominal signal:	8 V DC, 8 mA
Forced venting .....		
(Terminals 81/82).....	Nominal signal:	6 ... 24 V DC
.....	Rated voltage:	32 V DC ... 85 V DC
Fault signal output .....		
(Terminals 83/84).....	Nominal signal:	8 V DC, 8 mA
External position sensor.....		
(Analog board Pins p9, p10, p11) .....	Nominal signal:	potentiometer

## Changes

The changes concern the update of the applied standards, the adding of another type notation for dust ignition protection by enclosure, the discontinue of the intrinsically safe variant and the application of alternative gasket material of the enclosure.

### (16) Test report PTB Ex 16-25138

### (17) Specific conditions of use

A fuse according to IEC 60127-2/II, 250 V F respectively IEC 60127-2/VI, 250 V T with a maximum nominal fuse current of  $I_N \leq 63$  mA shall be connected in series to the signal circuit (terminals 11/12).

If the position indicator circuit is connected to a circuit of type of protection Ex nA IIC/IIIC a fuse according to IEC 60127-2/VI, 250 V T with a maximum nominal fuse current of  $I_N \leq 40$  mA shall be connected in series. This fuse shall be arranged outside of the hazardous area.

A fuse according to IEC 60127-2/II, 250 V F respectively IEC 60127-2/VI, 250 V T with a maximum nominal fuse current of  $I_N \leq 40$  mA shall be connected in series to the program interface adapter in the connection of Vcc.

The program interface adapter shall be arranged outside the hazardous area.

The connection of the wires has to be made in a way that the connection is free of tensile and torsional stress.

Connection, disconnection and switching of energized circuits is only permitted during installation, maintenance or repair.

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**SCHEDULE TO EU-TYPE EXAMINATION CERTIFICATE PTB 03 ATEX 2180 X, Issue: 01**

(18) Essential health and safety requirements

Met by compliance with the aforementioned standards.

According to Article 41 of Directive 2014/34/EU, Conformity Statements which have been issued according to Directive 94/9/EC prior to the date of coming into force of Directive 2014/34/EU (April 20, 2016) may be considered as if they were issued already in compliance with Directive 2014/34/EU. By permission of the European Commission supplements to such Conformity Statements and new issues of such certificates may continue to hold the original certificate number issued before April 20, 2016.

Konformitätsbewertungsstelle, Sektor Explosionsschutz  
On behalf of PTB:

Braunschweig, June30,2016

  
Dr.-Ing. U. Gerlach  
Regierungsdirektor

