



# 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 17.0020X

Issue No: 0

Certificate history:

Issue No. 0 (2018-06-01)

Status: Current

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Date of Issue: 2018-06-01

Applicant: SAMSON AG  
Weismüllerstraße 3  
60314 Frankfurt  
Germany

Equipment: Differential Pressure Gauge / Transmitter type 5007-1-1x1

*Optional accessory:*

Type of Protection: Ex ia

Marking:

Ex ia IIB T4 Gb (Type 5007-1-111),  
Ex ia IIB T4 Ga/Gb (Type 5007-1-121)

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

Pieter van Breugel

*Position:*

Certification Officer

*Signature:  
(for printed version)*

*Date:*

  
15<sup>th</sup> of June, 2018

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)  
Wilmersdorf 50  
7327 AC Apeldoorn  
P.O. Box 137  
The Netherlands





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Manufacturer: SAMSON AG  
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 Edition:6.0	Explosive atmospheres - Part 0: General requirements
IEC 60079-11 : 2011 Edition:6.0	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
IEC 60079-26 : 2014-10 Edition:3.0	Explosive atmospheres – Part 26: Equipment with Equipment Protection Level (EPL) Ga

*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/ExTR17.0022/00](#)

#### Quality Assessment Report:

[DE/TUN/QAR06.0011/07](#)



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## Schedule

### EQUIPMENT:

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

The Differential Pressure Gauges / Transmitters type 5007-1-1x1 are 2 wire loop powered (4 – 20 mA) and are used to convert a differential pressure signal into an electrical signal. The Gauge consists of a non-metallic enclosure for the electronics, equipped with an indicator for local read-out and a number of push buttons for control, mounted on a differential pressure measuring cell made from brass. Optionally the Gauge can be equipped with up to 4 additional 4 - 20 mA analog outputs.

Gauges Type 5007-1-121 provide a EPL Ga/Gb separation towards the process in the sensor enclosure, where gauges type 5007-1-111 are equipped with an additional pressure sensor that is in contact with the process.

Ambient temperature range: -20 °C to +70 °C.

### Electrical Data

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

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

$U_i = 28 \text{ V}$ ;  $I_i = 115 \text{ mA}$ ;  $P_i = 1.0 \text{ W}$ ;  $C_i = 25 \text{ nF}$ ;  $L_i = 0 \text{ mH}$

Output circuit (option module terminals +31, -31):

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

$U_i = 28 \text{ V}$ ;  $I_i = 115 \text{ mA}$ ;  $P_i = 1.0 \text{ W}$ ;  $C_i = 25 \text{ nF}$ ;  $L_i = 0 \text{ mH}$

The output circuits of the option modules are galvanically isolated from each other and from the supply and output circuit up to a voltage of 500 V.

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

The equipment shall be installed and maintained such that hazards caused by electrostatic discharge are excluded.