



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 17ATEX0041 X Issue: 1**

4 Product: **Differential Pressure Gauge / Transmitter Type 5007-1-1x0**

5 Manufacturer: **SAMSON AG**

6 Address: **Weismüllerstraße 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. 170701565.

9 Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
EN 60079-0 : 2012 + A11 : 2013 EN 60079-11 : 2012 EN 60079-26 : 2015

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 IIB T4 Gb (Type 5007-1-110)

or

II 1/2 G

Ex ia IIB T4 Ga/Gb (Type 5007-1-120)

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Pieter van Breugel
Certification Officer

Issue date:

1 June 2018

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.

© Integral publication of this certificate in its entirety and without any change is allowed.

13 SCHEDULE

14 EU – Type Examination Certificate KIWA 17ATEX0041 X Issue No. 1

15.1 Description of Product

The Differential Pressure Gauges / Transmitters type 5007-1-1x0 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 5007-1-120 provide a EPL Ga/Gb separation towards the process in the sensor enclosure, where gauges type 5007-1-110 are equipped with an additional pressure sensor that is in contact with the process.

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

15.2 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.

15.3 Instructions

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

16 ATEX Assessment Report Number

170701565.

17 Specific Conditions of Use

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

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. 170701565.

