

Translation

(1) EC-Type Examination Certificate

(2) Equipment and protective systems intended for use
in potentially explosive atmospheres - Directive 94/9/EC

(3) No. of EC-Type Examination Certificate: **BVS 14 ATEX E 104 X**

(4) Equipment: **i/p - Converter type 6116-2*******

(5) Manufacturer: **SAMSON AG**

(6) Address: **Weismüllerstraße 3, 60314 Frankfurt am Main, Germany**

(7) The design and construction of this equipment and any acceptable variation thereto are specified in the appendix to this type examination certificate.

(8) The certification body of DEKRA EXAM GmbH, notified body no. 0158 in accordance with Article 9 of the Directive 94/9/EC of the European Parliament and the Council of 23 March 1994, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres, given in Annex II to the Directive. The examination and test results are recorded in the Test and Assessment Report BVS PP 14.2144 EG.

(9) The Essential Health and Safety Requirements are assured by compliance with:

EN 60079-0:2012 General requirements
EN 60079-1:2007 Flameproof enclosure "d"

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

(11) This EC-Type Examination Certificate relates only to the design, examination and tests of the specified equipment in accordance to Directive 94/9/EC.
Further requirements of the Directive apply to the manufacturing process and supply of this equipment. These are not covered by this certificate.

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

 **II 2G Ex d IIC T* Gb**

* see parameters for details

DEKRA EXAM GmbH
Bochum, dated 2014-06-27

Signed: Simanski

Certification body

Signed: Dr. Wittler

Special services unit

(13) Appendix to

(14) **EC-Type Examination Certificate**
BVS 14 ATEX E 104 X

(15) 15.1 Subject and type

i/p - Converter type 6116-2*¹⁾*²⁾*³⁾*⁴⁾*⁵⁾*⁶⁾*⁷⁾*⁸⁾

¹⁾: i/p-Module

²⁾: Input signal (electrical)

³⁾: Output (pneumatic)

⁴⁾: Operating direction

⁵⁾: Connection thread

⁶⁾: Pneumatic connection

⁷⁾: Ingress of protection

⁸⁾: Manometer

15.2 Description

The i/p-converter type 6116-2***** is designed to convert a current input signal in a pneumatic pressure output signal. The flameproof enclosure is made of an aluminium alloy; it is fitted with two stainless steel sintered flame arresters for comparative connection purposes.

The media is used for the pneumatic system are non-combustible gases and vapours. Gases enriched with oxygen shall not be used.

15.3 Parameters

Electric parameters

Nominal voltage

1...10 V

Nominal current

4...20 mA

Max. power dissipation

1.5 W

Pneumatic parameters

P_{max} Inlet

6 bar

P_{max} Outlet

5.6 bar

Thermal parameters

Ambient temperature / Temperature class

-45 °C ≤ T_a ≤ 50 °C T6

-45 °C ≤ T_a ≤ 65 °C T5

-45 °C ≤ T_a ≤ 80 °C T4

(16) Test and Assessment Report

BVS PP 14.2144 EG as of 2014-06-27

(17) Special conditions for safe use

For ambient temperatures of 80 °C, cable glands and connecting cables have to be used that are of a permitted service temperature of T_a +3 K minimum. Nevertheless, those cable glands and connecting cables also need to be suitable for the lower temperatures.

We confirm the correctness of the translation from the German original.
In the case of arbitration only the German wording shall be valid and binding.

DEKRA EXAM GmbH
44809 Bochum, 2014-06-27
BVS-Sit/Mu A 20140043

[Signature]

Certification body

[Signature]

Special services unit