



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

Certificate No.:	IECEx BVS 14.0066X	issue No.:0	Certificate history:
Status:	Current		
Date of Issue:	2014-07-01	Page 1 of 4	
Applicant:	SAMSON AG Weismüllerstraße 3 60314 Frankfurt am Main Germany		
Electrical Apparatus: Optional accessory:	i/p – Converter type 6116-2*****		
Type of Protection:	Equipment protection by flameproof enclosures "d"		
Marking:	Ex d IIC T* Gb * see general product information "parameters"		
Approved for issue on behalf of the IECEx Certification Body:	H.-Ch. Simanski		
Position:	Head of Certification Body		
Signature: (for printed version)			
Date:	1.7.2014		

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.

Certificate issued by:

DEKRA EXAM GmbH
Dinnendahlstrasse 9
44809 Bochum
Germany

 **DEKRA**
DEKRA EXAM GmbH



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Manufacturer: **SAMSON AG**
Weismüllerstraße 3
60314 Frankfurt am Main
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 electrical 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 Explosive atmospheres - Part 0: General requirements
Edition: 6.0

IEC 60079-1 : 2007-04 Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition: 6

*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:

[DE/BVS/ExTR14.0067/00](#)

Quality Assessment Report:

[DE/TUN/QAR06.0011/05](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

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

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.

CONDITIONS OF CERTIFICATION: YES as shown below:

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



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EQUIPMENT(continued):

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

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



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EQUIPMENT(continued):

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

Ambient temperature / Temperature class	$-45\text{ }^{\circ}\text{C} \leq T_a \leq 50\text{ }^{\circ}\text{C}$	T6
	$-45\text{ }^{\circ}\text{C} \leq T_a \leq 65\text{ }^{\circ}\text{C}$	T5
	$-45\text{ }^{\circ}\text{C} \leq T_a \leq 80\text{ }^{\circ}\text{C}$	T4