

CERTIFICATE OF CONFORMITY



- HAZARDOUS (CLASSIFIED) LOCATION ELECTRICAL EQUIPMENT PER US REQUIREMENTS**
- Certificate No:** FM21US0094X
- Equipment:** I/P Converter
(Type Reference and Name) 6116-3
- Name of Listing Company:** Samson AG
- Address of Listing Company:** Mess-und Regeltechnik, Weismullerstrasse 3, Postfach 101901, Frankfurt D60314 GERMANY
- The examination and test results are recorded in confidential report number:

1W5A4.AE dated 27th April 1993
- FM Approvals LLC, certifies that the equipment described has been found to comply with the following Approval standards and other documents:

FM Class 3600:2022, FM Class 3615:2022, FM Class 3810:2021, ANSI/UL 61010-1:2015, ANSI/NEMA 250:1991
- If the sign 'X' is placed after the certificate number, it indicates that the equipment is subject to specific conditions of use specified in the schedule to this certificate.
- This certificate relates to the design, examination and testing of the products specified herein. The FM Approvals surveillance audit program has further determined that the manufacturing processes and quality control procedures in place are satisfactory to manufacture the product as examined, tested and Approved.
- Equipment Ratings:

6116-3 I/P Converters
Explosionproof for Class I, Division 1, Groups B, C and D; Dust-Ignitionproof for Class II, III, Groups E, F and G; T6 with ambient temperature range of -40°C to +60°C, for use in hazardous (classified) locations, indoors and outdoors (Type 4X).

Certificate issued by:

J.E. Marquedant
VP, Manager - Electrical Systems

17 February 2022

Date

To verify the availability of the Approved product, please refer to www.approvalguide.com

THIS CERTIFICATE MAY ONLY BE REPRODUCED IN ITS ENTIRETY AND WITHOUT CHANGE

FM Approvals LLC. 1151 Boston-Providence Turnpike, Norwood, MA 02062 USA
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SCHEDULE



US Certificate Of Conformity No: FM21US0094X

Explosionproof for Class I, Division 1, Groups B, C and D; T6 with ambient temperature range of -45°C to +60°C, for use in hazardous (classified) locations, indoors and outdoors (Type 4X).

11. The marking of the equipment shall include:

Class I, Div 1, Grps B, C, D; T6 Ta = -45°C to +60°C; Type 4X

or

Class I, Grps B, C, D;

Class II, Grps E, F, G;

Class III;

T6 Ta = -40°C to +60°C; Type 4X

12. **Description of Equipment:**

General –

The 6116-3 I/P Converter is an instrument used to convert a dc electrical current input signal into a proportional pneumatic pressure output signal for use in hazardous locations.

The equipment enclosure is made of grey cast iron aluminum (GD-Al12Si) with a free internal volume of 220cm³ (without I/P module electronics). The enclosure comes with a thread-on cover and (1) ½ inch NPT entry (or optionally with (1) metric M20 threaded entry) for field wiring purposes. The enclosure incorporates (2) 80 micron stainless steel sintered flame arresters. (1) for routing of pneumatic connections to inside of the enclosure and (1) for venting purposes.

The pneumatic media used with the 6116-3 I/P Converters shall be noncombustible type (for example, compressed air). The 6116-3 I/P Converters are not for use with flammable media (for example, Natural Gas, Propane, Oxygen, and or other gases which are enriched with Oxygen).

The 6116-3 I/P Converters enclosure base incorporate an o-ring for its thread-on cover connection for environmental protection.

Ambient Temperature Ratings –

The ambient temperature range for the equipment is either -40°C to +60°C or -45°C to +60°C (Explosionproof only).

Pneumatic Pressure Ratings –

The maximum pressure rating for the 6116-3 I/P Converters are:

Pmax Inlet = 6 Bar (87psig) and Pmax Outlet = 5.5 Bar (80psig).

Electrical Ratings -

The electrical input ratings of the 6116-3 I/P Converters are:

4-20mA, 0 to 20mA, 1 to 10V. The maximum power dissipation of the 6116-3 I/P Converters is 1.5 Watts. Depending on the signal range ordered the 6116-3 I/P Converters are equipped with a Type 6109 I/P Converter module or Type 6112 I/P Converter module.

Environmental Ratings –

The 6116-3 I/P Converters are environmentally rated as Type 4X.

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Equipment Listing -

6116-3abbccdefghi. I/P Converter.

- a = i/p converter module: 1, 2
- bb = Input: 01, 03, 04, 05, 06
- cc = Output: 01, 02, 04, 05, 11, 12, 13, 14, 15, 16, 17, 18
- d = Direction of action: 1, 2
- e = Electrical connection: 1, 2
- f = Pneumatic connection: 0, 1, 2
- g = Degree of protection: 0, 1, 2, 3
- h = Output pressure gauge: 0, 1
- i = Temperature range: 0, 1, 2

13. **Specific Conditions of Use:**

1. The 6116-3 I/P Converters are not for use with flammable media. See Mounting and Operating Instructions EB 6116 EN.

14. **Test and Assessment Procedure and Conditions:**

This Certificate has been issued in accordance with FM Approvals US Certification Requirements.

15. **Schedule Drawings**

A copy of the technical documentation has been kept by FM Approvals.

16. **Certificate History**

Details of the supplements to this certificate are described below:

Date	Description
27 th April 1993	Original Issue.
17 th February 2022	Supplement 1: Report Reference: – PR458270 dated 17 th February 2022. Description of the Change: Create new format certificate with update FM standard editions as a result of non-technical updates. Update drawings and Listings, adding of (2) adhesive nameplate labels, offer expanded ambient temperature range -45°C to +60°C for Explosionproof protection concept rating.

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