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 TSA 05.0008X issue No.:0

Certificate history:

Status: **Current**

Date of Issue: **2005-04-04** Page 1 of 4

Applicant: **Samson Controls Pty Ltd**
Units 13-15, 61-71 Beauchamp Road
Matraville NSW 2036
Australia

Electrical Apparatus: **Electro-Pneumatic Converter Type 6116-6**
Optional accessory:

Type of Protection: **Ex ia / Ex n**

Marking: Ex ia IICT6
Ex n IIC T6
IECEx TSA 05.0008X

Approved for issue on behalf of the IECEx Certification Body: Ujen Singh

Position: Quality and Certification Manager

Signature:
(for printed version)

Date: 04-04-2005

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:

TestSafe Australia
919 Londonderry Road
Londonderry NSW 2753
Australia

Test Safe AUSTRALIA

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Manufacturer: **Samson AG Mess-Und Regeltechnik**
Weissmüllerstrasse 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 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 : 2000 Edition: 3.1	Electrical apparatus for explosive gas atmospheres - Part 0: General requirements
IEC 60079-11 : 1999 Edition: 4	Electrical apparatus for explosive gas atmospheres - Part 11: Intrinsic safety 'i'
IEC 60079-15 : 1987 Edition: 1	Electrical apparatus for explosive gas atmospheres - Part 15: Type of protection 'n'

*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

IECEx ATR:	File Reference:
AU/TS/05.007	**2003/023294**

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Schedule

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

The Type 6116-6 I/P Converter serves for converting a load-independent current into a standard pressure signal in the 0.2 to 1 bar or 0.4 to 2 bar range respectively. It consists of an I/P module model 6112 and a downstream pneumatic amplifier model Hybird S35.

The converter is a passive two-terminal network that may be connected to any certified intrinsically safe circuit, provided the permissible maximum values of Ui, Ii and Pi are not exceeded.

For air supply, non-combustible media are used.

The apparatus is mounted in field enclosures. The electronic circuitry is encapsulated.

CONDITIONS OF CERTIFICATION: YES as shown below:

The following input parameters must be taken into account when connecting to a supply:

Input Parameters	Screw terminals
Maximum Output Voltage U_i	25 V
Maximum Output Current I_i	100 mA
Maximum Output Power P_i	0.7 W
Maximum Internal Capacitance C_i	6 nF
Maximum Internal Inductance L_i	50 µH

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Additional information:

The following documents were assessed in the course of preparing this report. The documents listed give a full and correct specification of the safety aspects of the electrical equipment.

Document No.	Document Title	Issue	Date
6116-6 1-R	i/p – Converter (EExia)	1a	2003/07/16
1050-0309 S	Anschlubstück, vst. 6116	1	2002/10/17
1050-0317 T	Watertight vent valve	Orig.	1996/03/26
1050-0244 T	Watertight vent valve	Orig.	1996/03/26
1050-0454 T	Filter disk	-	1998/04/09
1050-0312 T	I/P – Umformer Compl.	1	1998/04/03
1050-0316 S	Schaltplan Hybird S35*	Orig.	1996/10/15
1050-0311 S	Leiterplantte Vst. * (I/P-Umformer)	2	1998/04/03
1050-0314 S	Hybird S35 Vst.	Orig.	1996/10/07
6112-2 R	i/p Umformer	2	1999/11/30
1050-0564 T	Plunger coil	Orig.	1999/08/16
1050-0565	Complled according to drawing No. 1050-0564 T	Orig.	1999/07/30
1050-0566 S	Beam, complete	Orig.	1999/07/30
1050-0567 R	Diodenblock vollst.	Orig.	1999/08/23
1050-0780 T	Schild (Prüfstellen-Original)	Orig.	2005/03/10