



IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: **IECEx BVS 21.0083**

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Certificate history:

Status: **Current**

Issue No: 2

[Issue 1 \(2023-03-08\)](#)

[Issue 0 \(2021-12-10\)](#)

Date of Issue: 2024-05-21

Applicant: **SAMSON AG**
Weismüllerstraße 3
60314 Frankfurt am Main
Germany

Equipment: **Positioner type TROVIS 3797**

Optional accessory:

Type of Protection: **Intrinsic Safety "i", 2-wire intrinsically safe Ethernet concept (2-WISE)**

Marking: **Ex ia IIC T4/T6 Gb**

Approved for issue on behalf of the IECEx
Certification Body:

Dr Franz Eickhoff

Position:

**Senior Lead Auditor, Certification Manager and officially
recognised expert**

Signature:
(for printed version)

Date:
(for printed version)


2024-05-21

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3. The Status and authenticity of this certificate may be verified by visiting www.iecex.com or use of this QR Code.



Certificate issued by:

DEKRA Testing and Certification GmbH
Certification Body
Dinnendahlstrasse 9
44809 Bochum
Germany





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Manufacturing
locations: **SAMSON AG**
Weismüllerstraße 3
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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 equipment 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 60079-0:2017](#) Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

[IEC 60079-11:2011](#) Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition:6.0

[IEC TS 60079-47:2021](#) Explosive atmospheres – Part 47: Equipment protection by 2-wire intrinsically safe Ethernet concept (2-WISE)
Edition:1.0

This Certificate **does not** indicate compliance with 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/ExTR21.0083/02](#)

Quality Assessment Report:

[DE/TUN/QAR06.0011/12](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

General product information:

The positioner TROVIS 3797 is a 2-WISE power load suitable for use in a 2-WISE system. It is a single or double acting positioner for attachment to pneumatic control valves. It consists of a non-contact travel sensor system, an i/p-converter and the μ C supported electronics. The positioner ensures a predetermined assignment of the valve position to the setpoint. The valve position is transmitted either as an angle of rotation or a travel to the pick-up lever, from there to the travel sensor and forwarded it to the microcontroller. The PID algorithm in the microcontroller continuously compares the valve position measured by the position sensor with the setpoint from the control system. In case of a set point deviation, the pneumatic module causes the actuator to be either vented or filled with air. As a result, the closure member of the valve (e.g. plug) is moved to the position determined by the setpoint.

The data exchange and the electrical supply to the control units are carried out via Ethernet Advanced Physical Layer (APL).

Model type code:

See Annex

Ratings:

The Signal Circuit Terminal 11 (+) / 12 (-) is a **2-WISE power load** port with level of protection “**ia**” and for use in hazardous areas with Group IIC gases.

Ambient temperature range:

T4: $-40\text{ }^{\circ}\text{C} \leq T_{\text{amb}} \leq +80\text{ }^{\circ}\text{C}$ or T6: $-40\text{ }^{\circ}\text{C} \leq T_{\text{amb}} \leq +55\text{ }^{\circ}\text{C}$

With Option Inductive Limit Switches

T4: $-40\text{ }^{\circ}\text{C} \leq T_{\text{amb}} \leq +70\text{ }^{\circ}\text{C}$ or T6: $-40\text{ }^{\circ}\text{C} \leq T_{\text{amb}} \leq +45\text{ }^{\circ}\text{C}$

SPECIFIC CONDITIONS OF USE: NO



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

- Change of the power limitation circuit
- Introduction of the temperature class T6

Annex:

[BVS_21_0083_Samson_Annex_issue2.pdf](#)

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Annex
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Model type code:

	b	c	d	e	f	g	h	i	j	k	l	m	n	o	p	q	
3 7 9 7 -	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	
	b	c	d	Explosion protection													
	0	0	0	Without													
	1	1	0	II 2G Ex ia IIC T4/T6 Gb (according to ATEX)													
	1	1	1	Ex ia IIC T4/T6 Gb (according to IECEx)													
	e	Function (not safety relevant)															
	f	g	Pneumatics (not safety relevant)														
	h	i	Option module 1														
	0	0	Without														
	j	k	Option module 2														
	0	0	Without														
	1	5	with Inductive Limit Switches (NC) and Binary Output (Code P)														
	1	6	with Inductive Limit Switches (NO) and Binary Output (Code P)														
	l	Pressure sensor															
	2	Standard (Supply 9, Output 138, Output 238)															
	m	Electrical connections															
	1	1 cable gland, 3 blind plugs															
	n	Housing material															
	0	Aluminum die cast															
	1	Stainless steel (1.4408)															
	o	Special applications (not safety relevant)															
	p	Additional approvals (not safety relevant)															
	q	Ambient temperature f. Cable glands (not safety relevant)															
	0	-20 °C ... +80 °C (plastics cable glands)															
	1	-40 °C ... +80 °C (metallic cable glands)															
	2	-55 °C ... +80 °C (metallic cable glands)															