

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 IBE 14.0044X

Issue No: 1

Certificate history:

Status:

Current

Issue No. 1 (2019-07-03) Issue No. 0 (2015-01-19)

Page 1 of 4

Date of Issue:

2019-07-03

Applicant:

Keller AG für Druckmesstechnik

St. Gallerstrasse 119 8404 Winterthur Switzerland

Equipment:

Piezoresistive pressure transmitter and temperature transmitter

Optional accessory:

Serie 23SYEi, 23YEi, 23YMEi, 25YEi, 26YEi and 26YMEi as well as PT-25YEi

Type of Protection:

intrinsic safety 'ia'

Marking:

Serie 23SYEi, 23YEi, 23YMEi, 25YEi, 26YEi and 26YMEi:

Exial Ma

Ex ia IIC T6...T4 Ga Ex ia IIIC T130 °C Da

PT-25YEi:

Ex ia IIC T4 Ga

Approved for issue on behalf of the IECEx

Certification Body:

Dipl.-Ing. Alexander Henker

Position:

Head of Certification Body

Signature:

(for printed version)

Date:

- 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:

IBExU Institut für Sicherheitstechnik GmbH

Certification Body Fuchsmühlenweg 7 09599 Freiberg Germany





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Certificate No:

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Page 2 of 4

Manufacturer:

Keller AG für Druckmesstechnik

St. Gallerstrasse 119 8404 Winterthur Switzerland

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 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 60079-11: 2011

Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"

Edition:6.0

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/IBE/ExTR14.0061/00

DE/IBE/ExTR14.0061/01

Quality Assessment Report:

DE/EPS/QAR13.0004/08



IECEx Certificate of Conformity

Certificate No:

IECEx IBE 14.0044X

Issue No: 1

Date of Issue:

2019-07-03

Page 3 of 4

Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

Serie 23SYEi Pressure Transmitter with threaded port and without internal sealing Serie 23YEi Pressure Transmitter with threaded port and with internal sealing Serie 25YEi Pressure Transmitter with threaded port and front-flush diaphragm Serie 26YEi Level transmitter for hydrostatic pressure measurement

Serie 23YMEi Pressure Transmitter with threaded port and with internal sealing for mining with M1 approval

Serie 26YMEi Level transmitter for hydrostatic pressure measurement for mining with M1 approval

Serie PT-25YEi Temperature transmitter

Further details see attachement

SPECIFIC CONDITIONS OF USE: YES as shown below:

The ambient and medium temperature range varies according to the operating conditions and is specified in the manual.

The permissible operating pressures are specified in the manufacturer's documents.

The electric strength of the metallic enclosure is ≤ 250 V_{SS}.

The safety and installation instructions in the operating manual have to be taken into account.

For all cable sensors additional safety and installation instructions have to be taken into account (regarding danger of electrostatic discharges).



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Certificate No:

IECEX IBE 14.0044X

Issue No: 1

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2019-07-03

Page 4 of 4

DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):

A new type PT-25 YEi has been added.

Annex:

Annex_IBE14.0044X_01.pdf



IECEx Certificate of Conformity - Annex



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IECEx IBE 14.0044X

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Date of Issue:

2019-07-03

Page 1 of 1

Technical data

Ambient temperature range	Ta	-40 °C to +40/ 50/ 65/ 100 °C depending on temperature class and type	
Power supply and data circuit (2-wire transmitter)	fixed cable or cor	cable or connecting plug	
maximum input voltage	Ui	30 V	
maximum input voltage	I _i	200 mA	
	P _i	0.64/ 1.1/ 1.33 W	
maximum input power	Pi	all pressure transmitter types T4 :	
		Ambient temp. Ta	Power Pi
		40 °C	1.33 W
		65 °C	1.1 W
		100 °C	0.64 W
		2- wire transmitter T6 :	
		Ambient temp. Ta	Power Pi
		50 °C	1.33 W
		temperature transmitter T4:	
		Ambient temp. Ta	Power Pi
		50 °C	1.33 W
maximum internal capacitance	Ci	negligible	
maximum internal inductance	Li	negligible	
Output (3-wire transmitter)			
maximum output voltage	Uo	14.7 V	
maximum output current	10	149 mA	
maximum internal capacitance	Ci	528 nF (pressure transmitter) 2 nF (temperature transmitter)	
maximum internal inductance	Li	negligible	
Characteristics of fixed cable:	L' wire	1.2 µH/m	
	C' wire-wire	150 pF/m	
	C' wire-shield	250 pF/m	