



# 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](http://www.iecex.com)

Certificate No.: IECEx IBE 14.0044X Issue No: 1 Certificate history:  
Issue No. 1 (2019-07-03)  
Issue No. 0 (2015-01-19)

Status: Current 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:  
  
Ex ia I 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:

2019-07-03

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: IECEX IBE 14.0044X Issue No: 1  
Date of Issue: 2019-07-03 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 60078-0 : 2011 Explosive atmospheres - Part 0: General requirements  
Edition:6.0  
IEC 60078-11 : 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 23SYE| Pressure Transmitter with threaded port and without internal sealing  
Serie 23YE| Pressure Transmitter with threaded port and with internal sealing  
Serie 25YE| Pressure Transmitter with threaded port and front-flush diaphragm  
Serie 26YE| Level transmitter for hydrostatic pressure measurement  
Serie 23YME| Pressure Transmitter with threaded port and with internal sealing for mining with M1 approval  
Serie 26YME| Level transmitter for hydrostatic pressure measurement for mining with M1 approval

Serie PT-25YE| Temperature transmitter

Further details see attachment

### 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  $\leq 250 V_{SS}$ .

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).



# IECEX Certificate of Conformity

Certificate No: IECEx IBE 14.0044X

Issue No: 1

Date of Issue: 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](#)

Certificate No: IECEX IBE 14.0044X

Issue No: 1

Date of Issue: 2019-07-03

Page 1 of 1

### Technical data

Ambient temperature range	$T_a$	-40 °C to +40/ 50/ 65/ 100 °C depending on temperature class and type																
<b>Power supply and data circuit (2-wire transmitter)</b>	fixed cable or connecting plug																	
maximum input voltage	$U_i$	30 V																
maximum input current	$I_i$	200 mA																
maximum input power	$P_i$	0.64/ 1.1/ 1.33 W all pressure transmitter types T4: <table border="1" style="margin-left: 20px;"> <thead> <tr> <th>Ambient temp. <math>T_a</math></th> <th>Power <math>P_i</math></th> </tr> </thead> <tbody> <tr> <td>40 °C</td> <td>1.33 W</td> </tr> <tr> <td>65 °C</td> <td>1.1 W</td> </tr> <tr> <td>100 °C</td> <td>0.64 W</td> </tr> </tbody> </table> 2-wire transmitter T6: <table border="1" style="margin-left: 20px;"> <thead> <tr> <th>Ambient temp. <math>T_a</math></th> <th>Power <math>P_i</math></th> </tr> </thead> <tbody> <tr> <td>50 °C</td> <td>1.33 W</td> </tr> </tbody> </table> temperature transmitter T4: <table border="1" style="margin-left: 20px;"> <thead> <tr> <th>Ambient temp. <math>T_a</math></th> <th>Power <math>P_i</math></th> </tr> </thead> <tbody> <tr> <td>50 °C</td> <td>1.33 W</td> </tr> </tbody> </table>	Ambient temp. $T_a$	Power $P_i$	40 °C	1.33 W	65 °C	1.1 W	100 °C	0.64 W	Ambient temp. $T_a$	Power $P_i$	50 °C	1.33 W	Ambient temp. $T_a$	Power $P_i$	50 °C	1.33 W
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maximum internal capacitance	$C_i$	negligible																
maximum internal inductance	$L_i$	negligible																
<b>Output (3-wire transmitter)</b>																		
maximum output voltage	$U_o$	14.7 V																
maximum output current	$I_o$	149 mA																
maximum internal capacitance	$C_i$	528 nF (pressure transmitter) 2 nF (temperature transmitter)																
maximum internal inductance	$L_i$	negligible																
Characteristics of fixed cable:	$L'$ wire	1.2 $\mu$ H/m																
	$C'$ wire-wire	150 pF/m																
	$C'$ wire-shield	250 pF/m																