

1 **UNITED KINGDOM CONFORMITY ASSESSMENT**  
2 **UK TYPE EXAMINATION CERTIFICATE**

3 **Product Intended for use in Potentially Explosive Atmospheres**  
4 **UKSI 2016:1107 (as amended by UKSI 2019:696) – Schedule 3A, Part 1**

5 Type Examination Certificate Number: **ExV 21UKEX1017X** Issue: **0**

6 Product: **Piezoresistive pressure transmitter and temperature transmitter - Serie 23SYEi, 23YEi, 23YMEi, 25YEi, 26YEi, 26YMEi and PT-25YEi**

7 Manufacturer: **KELLER AG für Druckmesstechnik**

8 Address: **St. Galler Strasse 119, CH 8404 Winterthur, Switzerland**

9 This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

10 ExVeritas Limited Approved Body number 2585, in accordance with Regulation 42 of the Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres Regulations 2016, UKSI 2016:1107 (as amended by UKSI 2019:696), certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Schedule 1 of the Regulations.

11 Compliance with the applicable Essential Health and Safety Requirements has been assured by compliance with:

**EN IEC 60079-0: 2018** **EN 60079-11: 2012**

Except in respect of those requirements listed at section 16 of the schedule to this certificate.

12 If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the schedule to this certificate.

13 This TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified product. Further requirements of the Regulations apply to the manufacturing process and supply of this product. These are not covered by this certificate.



**No. 8613**

On behalf of ExVeritas



**S Clarke CEng MSc FIET**  
**Managing Director**



Certificate: **ExV 21UKEX1017X**

Issue **0**

This certificate may only be reproduced in its entirety and without any change, schedule included.  
For help or assistance relating to this certificate, contact [info@exveritas.com](mailto:info@exveritas.com).  
ExVeritas, Units 16-18, Abenbury Way, Wrexham Industrial Estate, Wrexham, United Kingdom LL13 9UZ.  
ExVeritas® is a registered trademark, unauthorised use will lead to prosecution.

## Schedule

12 The marking of the equipment shall include the following:

 II 1 G Ex ia IIC T6 ... T4 Ga      T<sub>amb</sub> : Refer to Section 13 'Description of Product'  
 II 1 D Ex ia IIIC T130 °C Da  
 I M1 Ex ia I Ma  
 PT-25YEi :  II 1 G Ex ia IIC T4 Ga

13 Description of Product

The intrinsically safe pressure transmitter for the conversion of pressure into an electrical signal, is intended for use in hazardous atmospheres. The new type transmits a temperature in an electrical signal.

Ambient temperature range	T <sub>a</sub>	-40 °C to +40/ 50/ 65/ 100 °C depending on temperature class T6 - T4 and type												
Degree of protection	IP65/68 acc. To IEC 60529													
Power supply and data circuit (2-wire transmitter)	Fixed cable or connecting plug													
Maximum input voltage	U <sub>i</sub>	30 V												
Maximum input current	I <sub>i</sub>	200 mA												
Maximum input power	P <sub>i</sub>	0.64/ 1.1/ 1.33 W All transmitter types <b>T4</b> : <table border="1" data-bbox="1010 1128 1385 1272"> <thead> <tr> <th>Ambient temp. T<sub>a</sub></th> <th>Power P<sub>i</sub></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 <b>T6</b> : <table border="1" data-bbox="1010 1352 1385 1442"> <thead> <tr> <th>Ambient temp. T<sub>a</sub></th> <th>Power P<sub>i</sub></th> </tr> </thead> <tbody> <tr> <td>50 °C</td> <td>1.33 W</td> </tr> </tbody> </table>	Ambient temp. T <sub>a</sub>	Power P <sub>i</sub>	40 °C	1.33 W	65 °C	1.1 W	100 °C	0.64 W	Ambient temp. T <sub>a</sub>	Power P <sub>i</sub>	50 °C	1.33 W
Ambient temp. T <sub>a</sub>	Power P <sub>i</sub>													
40 °C	1.33 W													
65 °C	1.1 W													
100 °C	0.64 W													
Ambient temp. T <sub>a</sub>	Power P <sub>i</sub>													
50 °C	1.33 W													
Maximum internal capacitance	C <sub>i</sub>	negligible												
Maximum internal inductance	L <sub>i</sub>	negligible												
<b>Output (3-wire transmitter)</b>														
Maximum output voltage	U <sub>o</sub>	14.7 V												
Maximum output current	I <sub>o</sub>	149 mA												
Maximum internal capacitance	C <sub>i</sub>	528 nF												
Maximum internal inductance	L <sub>i</sub>	negligible												
Characteristics of fixed cable:	L' wire	1.2 µH/m												
	C' wire-wire	150 pF/m												
	C' wire-shield	250 pF/m												

Certificate: **ExV 21UKEX1017X**

Issue **0**

This certificate may only be reproduced in its entirety and without any change, schedule included.  
 For help or assistance relating to this certificate, contact [info@exveritas.com](mailto:info@exveritas.com).  
 ExVeritas, Units 16-18, Abenbury Way, Wrexham Industrial Estate, Wrexham, United Kingdom LL13 9UZ.  
 ExVeritas® is a registered trademark, unauthorised use will lead to prosecution.

## Schedule

### 14 Descriptive Documents

#### 14.1 Associated Report and Certificate History:

Report Number	Cert Issue Date	Issue	Comment
R3481/A/2	2021-12-16	0	Initial issue of the Prime Certificate

#### 14.2 Compliance Drawings:

Title:	Drawing No.:	Rev. Level:	Date:
Technical description: "Technische Beschreibung"	Technische Beschreibung 23YMEi 25YEi 26YMEi	Rev. 5	2019-06-21
List of documents „Technisches Dossier“	TD100511	5	2019-06-21
Operating instructions „Eigensicherer Temperaturtransmitter PT-25YEi / 0...50 °C / 22-2599-140“	-	-	June 2019
Drawing „Temperaturtransmitter PT-25YEi“	22-2599-140	B	2018-07-02
Technical document „Dürr Temperatur Transmitter 0...50 °C“	9B014-0	-	2019-04-12
Technical document „ATEX-Board from PromComp07“	9E015-0	-	2017-01-16
Technical document „ATEX-Board PCB 18016A“	9E019-0	-	2019-04-12
Marking Drawing for UKCA Approval in United Kingdom (Y-Series)	04-00013-03	A	2021-11-08

### 15 Specific Conditions of Use

#### 15.1 Special Conditions for Safe Use

1. The ambient and medium temperature range varies according to the operating conditions and is specified in the instructions.
2. The permissible operating pressures are specified in the manufacturer's documents.
3. The electric strength of the metallic enclosure is  $\leq 250$  V<sub>ss</sub>.
4. The safety and installation instructions in the operating manual have to be taken into account.
5. For all cable sensors additional safety and installation instructions have to be taken into account (regarding high-charging processes in dust atmospheres).

Certificate: **ExV 21UKEX1017X**

Issue **0**

This certificate may only be reproduced in its entirety and without any change, schedule included.  
 For help or assistance relating to this certificate, contact [info@exveritas.com](mailto:info@exveritas.com).  
 ExVeritas, Units 16-18, Abenbury Way, Wrexham Industrial Estate, Wrexham, United Kingdom LL13 9UZ.  
 ExVeritas® is a registered trademark, unauthorised use will lead to prosecution.

## Schedule

15.2 Routine tests

- None

16 Essential Health and Safety Requirements (Regulations Schedule 1)

Essential Health and Safety Requirements are addressed by the standards listed in section 9 and where required the report listed in section 14.1

The manufacturer shall inform ExVeritas of any modifications to the design of the product described by this schedule.

Certificate: **ExV 21UKEX1017X**

Issue **0**

This certificate may only be reproduced in its entirety and without any change, schedule included.  
For help or assistance relating to this certificate, contact [info@exveritas.com](mailto:info@exveritas.com).  
ExVeritas, Units 16-18, Abenbury Way, Wrexham Industrial Estate, Wrexham, United Kingdom LL13 9UZ.  
ExVeritas® is a registered trademark, unauthorised use will lead to prosecution.