



STATEMENT OF CONFORMITY

- (1) **STATEMENT OF CONFORMITY**
- (2) Equipment and protective systems intended for use in potentially explosive atmospheres – **directive 2014/34/EU**
- (3) Document No.

ExGuide 17 ATEX 0006

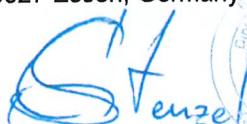
Edition 2


- (4) Equipment: **Temperature Switches type TWR-*******
- (5) Manufacturer: **KOBOLD Messring GmbH**
- (6) Address: **Nordring 22-24
65719 Hofheim, Germany**
- (7) The design of this product and the various permissible versions are specified in the annex to this certificate and the documents listed therein.
- (8) ExGuide Technology - Geoffrey Stenzel, as a certified engineering company, certifies that the product meets the basic safety and health requirements for the design and construction of category 3 equipment for use in potentially explosive atmospheres in accordance with Annex II of Directive 2014/34/EU. The results of the test are documented in the confidential test report No. P20220024PB02.
- The QM system of the engineering offices ExGuide Technology - Geoffrey Stenzel is monitored according to ISO 9001:2015 by AJA Europe Ltd. and listed under certificate No. AJ AEU/19/15703.
- (9) The essential health and safety requirements are met by compliance with:
- EN IEC 60079-0: 2018 EN 60079-11:2012**
- (10) If the sign "X" is placed after a certificate number, special conditions for the safe use of the equipment are indicated in the appendix to this certificate. If no certificate number according to (3) is applied to the device, the sign "X" must be placed after the Ex marking according to (12).
- (11) This certificate refers only to the design and specifications for the construction of the device according to directive 2014/34/EU. Further requirements apply to the manufacture and placing into market of this product. These requirements are not covered by this certificate.
- (12) The Ex-marking of the product must contain the following information:

 **II 3G Ex ic IIB/IIC T4 Gc
II 3D Ex ic IIIC T125 °C Dc**

ExGuide Technology – Geoffrey Stenzel
Katernberger Str. 107
45327 Essen, Germany

Essen, dated 02 February 2023


Dipl.-Ing. Geoffrey Stenzel



(13) Annex

(14) **ExGuide 17 ATEX 0006** Edition 2

(15) Description of the product

15.1 Subject and type designation
Temperature Switches type TWR-*****

Explanation of the type designation

TWR	Product series
1. Asterisk	Switching function 3 = N/O contact 4 = N/C contact
2. Asterisk	Enclosure material 1 = Brass 2 = Stainless steel
3.-5. Asterisk	Switching range 030 = 30 °C 035 = 35 °C 040 = 40 °C 045 = 45 °C 050 = 50 °C 060 = 60 °C 070 = 70 °C 080 = 80 °C 090 = 90 °C 100 = 100 °C 110 = 112 °C 120 = 118 °C

15.2 Description

The Temperature Switches type TWR-***** works with a bi-metal switch and serve to monitor temperature of liquids in piping and vessels.

The instruments are available in brass or stainless steel and are screwed through a G³/₄ screw-in thread into a screwed socket that is welded onto the line or vessel. The temperature contacts have a fixed switch point in intervals of 5 °C in the range +30 °C...+50 °C, and in intervals of 10 °C between +50 °C...+120 °C. They are available as N/C or N/O contacts. Standard electrical connection is made through a plug connector.

Description of change

Application of harmonized standard EN IEC 60079-0:2018.

15.3 Technical data

15.3.1 Thermal data

Ambient temperature range	T _a	-20 °C up to +90 °C
Medium temperature range		-30 °C up to +125 °C



15.3.2 Electrical data

Maximum input voltage	U _i	30 V AC/DC for IIC 45 V AC/DC for IIB and IIIC
Maximum input current	I _i	150 mA for IIC 250 mA for IIB and IIIC
Maximum input power	P _i	1.3 W for IIC and medium temperature up to +40 °C 550 mW for IIC and medium temperature up to +125 °C 750 mW for IIIC and medium temperature up to +40 °C 465 mW for IIIC and medium temperature up to +125 °C
Effective internal inductance	L _i	negligible
Effective internal capacitance	C _i	negligible

15.4 Minimum marking requirements on this equipment

Manufacturer's name and postal address KOBOLD Messring GmbH
 Nordring 22-24
 65719 Hofheim, Germany

Type designation TWR-*****

Serial No.

Year of manufacture

Ex symbol



Ex marking:

II 3G Ex ic IIB/IIIC T4 Gc
 II 3D Ex ic IIIC T125 °C Dc

CE marking



Ambient temperature range -20 °C ≤ T_a ≤ +90 °C

Medium temperature range -30 °C up to +125 °C

(16) Test and assessment report No. P20220024PB02, dated 02.02.2023

(17) Special conditions for safe use

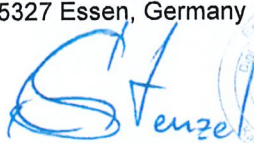

None

(18) Essential health and safety requirements

Fulfilled by compliance with the above-mentioned standards.

ExGuide Technology – Geoffrey Stenzel
 Katernberger Str. 107
 45327 Essen, Germany

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