Physikalisch-Technische Bundesanstalt
Braunschweig und Berlin
Nationales Metrologieinstitut

(1) EU-TYPE-EXAMINATION CERTIFICATE

(Translation)

(2) Equipment or Protective Systems Intended for Use in Potentially Explosive Atmospheres - **Directive 2014/34/EU**

(3) EU-Type Examination Certificate Number:

PTB 11 ATEX 2019 **Issue: 1**

(4) Product: Explosion protected power distribution, switchgear and controlgear-combination, type series Klippon TBe MH, Klippon TBe QL and Klippon TBe FS

(5) Manufacturer: Weidmüller Interface GmbH & Co. KG

(6) Address: Klingenbergstraße 16, 32758 Detmold, Germany

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

(8) The Physikalisch-Technische Bundesanstalt, notified body No. 0102 in accordance with Article 17 of the Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, 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 Annex II to the Directive.

The examination and test results are recorded in the confidential Test Report PTB Ex 16-25235.

(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN 60079-0:2012 + A11:2013 **EN 60079-11:2012** **EN 60079-15:2010**
EN 60079-26:2015 **EN 60079-31:2014**

(10) If the sign "X" is placed after the certificate number, it indicates that the product is subject to the Specific Conditions of Use specified in the schedule to this certificate.

(11) This EU-Type Examination Certificate relates only to the design and construction of the specified product in accordance to the Directive 2014/34/EU. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

(12) The marking of the product shall include the following:

Ex II 1 G Ex ia IIC T6...T4 Ga **or** **Ex II 2 G Ex ib IIC T6...T4 Gb** **or**
Ex II 3 G Ex ic IIC T6...T4 Gc **or** **Ex II 2 D Ex tb IIIC T 120 °C Db** **or**
Ex II 3 G Ex nA IIC T6...T4 Gc

Konformitätsbewertungsstelle, Sektor Explosionsschutz
On behalf of PTB:

Braunschweig, July 7, 2016

Dr.-Ing. F. Lienesch
Regierungsdirektor

PHYSIKALISCH-TECHNISCHE BUNDESANSTALT 56

(13) # SCHEDULE

(14) **EU-Type Examination Certificate Number PTB 11 ATEX 2019, Issue: 1**

(15) Description of Product

The explosion protected power distribution, switchgear and controlgear-combinations, of type series Klippon TBe MH, Klippon TBe QL and Klippon TBe FS comprise a series of enclosures made of stainless steel or sheet steel. The enclosures are available in various design sizes and can be equipped with different combinations of modular terminal blocks and separately certified apparatus. The equipment is intended for stationary installation inside the hazardous area.

The following separately certified, intrinsically safe equipment is intended for installation:

- Proximitor, type 3300XL, Bently Nevada
- Displacement chain, type OD-105x, Brüel & Kjaer
- Temperature transmitter, type 248R, Rosemount Inc.
- Temperature transmitter, type 644R, Rosemount Inc.

Depending on the type of protection or the protection level and the type of built-in intrinsically safe equipment the power distribution, switchgear and controlgear-combinations can be operated as category 1, 2 or 3-equipment (EPL Ga, Gb, Gc, or Db) under the following markings:

II 1 G Ex ia IIC T6...T4 Ga or **II 2 G Ex ib IIC T6...T4 Gb** or
II 3 G Ex ic IIC T6...T4 Gc or **II 2 D Ex tb IIIC T 120 °C Db** or
II 3 G Ex nA IIC T6...T4 Gc

For relationship between the permissible ambient temperature, type of protection, temperature class and type of enclosure as well as the number and type of the installed devices, reference is made to the following tables. These tables apply in each case to the specified numbers of one and the same type of equipment; a combination of several types is not permitted.:

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Controlgear and distribution enclosure, type	max. number Proximitor, type 3300XL Ex ia/ib/ic, Ex nA	Tempera-ture class	Permissible ambient temperature	max. number Displacement chain, type OD-105x Ex ia/ib/ic,	Tempera-ture class	Permissible ambient temperature
Klippon TB..221513	4	T4	-51 °C ... +77 °C	2	T4	-20 °C ... +76 °C
Klippon TB..262615						
Klippon TB..262620		T5	-35 °C ... +62 °C		T5	-20 °C ... +71 °C
Klippon TB..303015	12	T4	-51 °C ... +72 °C	6	T4	- 20 °C ... +71 °C
Klippon TB..303020						
Klippon TB..352615						
Klippon TB..352620		T5	-35 °C ... +57 °C		T5	-20 °C ... +66 °C
Klippon TB..403015						
Klippon TB..403020						
Klippon TB..453815	20	T4	-51 °C ... +77 °C	20	T4	-20 °C ... +63 °C
Klippon TB..453820						
Klippon TB..484815						
Klippon TB..484820						
Klippon TB..553515						
Klippon TB..553520						
Klippon TB..624515						
Klippon TB..624520		T5	-35 °C ... +52 °C		T5	-20 °C ... +58 °C
Klippon TB..765015						
Klippon TB..765020						
Klippon TB..916115						
Klippon TB..916120						
Klippon TB..987420						

Controlgear and distribution enclosure, type	max. number Rosemount Inc. model 248R Ex ia/ib/ic, Ex nA	Tempera-ture class	minimum clearance	Permissible ambient temperature
Klippon TB..262620	5	T5	26 mm	-60 °C... +51 °C
		T6	26 mm	-60 °C... +31 °C
Klippon TB..303020	10	T5	26 mm	-60 °C... +47 °C
Klippon TB..352620				
Klippon TB..403020		T6	26 mm	-60 °C... +27 °C
Klippon TB..453820	16	T5	26 mm	-60 °C... +46 °C
Klippon TB..484820				
Klippon TB..553520				
Klippon TB..624520				
Klippon TB..765020		T6	26 mm	-60 °C... +26 °C
Klippon TB..916120				
Klippon TB..987420				

For non-listed types of enclosure there is no applicable combination.

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Controlgear and distribution enclosure, type	max. number Rosemount Inc. model 644R Ex ia/ib/ic	Tempera-ture class	Permissible ambient temperature P_i = 1 W	max. number Rosemount Inc. model 644R Ex nA	Tempera-ture class	Permissible ambient temperature
Klippon TB..262615 Klippon TB..262620	5	T4	-60 °C ... +40 °C without clearance	5	T5	-60 °C ... +35 °C without clearance
Klippon TB..303015 Klippon TB..303020 Klippon TB..352615 Klippon TB..352620 Klippon TB..403015 Klippon TB..403020	8	T4	-60 °C ... +43 °C clearance ≥ 8 mm	8	T5	-60 °C ... +38 °C clearance ≥ 8 mm
Klippon TB..453815 Klippon TB..453820 Klippon TB..484815 Klippon TB..484820 Klippon TB..553515 Klippon TB..553520 Klippon TB..624515 Klippon TB..624520 Klippon TB..765015 Klippon TB..765020 Klippon TB..916115 Klippon TB..916120 Klippon TB..987420	14	T4	-60 °C ... +40 °C clearance ≥ 8 mm	14	T5	-60 °C ... +35 °C clearance ≥ 8 mm

Electrical data

The electrical data depend on type and number of the separately certified devices installed and shall be taken from the respective certificates and operating instructions manuals.

Modifications:

- Compilation of the specifications from the original certificate and the following changes
- Extension of the possible installation devices by two new, separately certified modules: Rosemount Inc., types 248R und 644R
- Introduction of type of protection "Ex nA IIC T6...T4 Gc"
- Update and extension (nA) of the marking
- Adaption to the current state of the standards
- Revision and extension (new modules) of the temperature tables
- Partly alteration of enclosure dimensions
- The electrical data are no longer listed; reference is made to the certificates of the separately certified installation devices.

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(16) Test Report PTB Ex 16-25235

(17) Specific conditions of use

none

Notes for manufacture and operation

1. The explosion protected power distribution, switchgear and controlgear-combinations shall be electrically connected to the equipotential bonding system of the hazardous area.
2. When intrinsically safe circuits are used which provide different protection levels (ia, ib or ic), the marking and the field of application of the equipment is determined by that intrinsically safe circuit having the lowest protection level.
3. The specifications and notes given in the certificates as well as the operating instructions of the built-in, separately certified apparatus shall be considered accordingly.
4. Only certified cable glands shall be used. Non-used openings shall be sealed by appropriate blind plugs.

(18) Essential health and safety requirements

Met by compliance with the aforementioned standards.

According to Article 41 of Directive 2014/34/EU, EC-type examination certificates which have been issued according to Directive 94/9/EC prior to the date of coming into force of Directive 2014/34/EU (April 20, 2016) may be considered as if they were issued already in compliance with Directive 2014/34/EU. By permission of the European Commission supplements to such EC-type examination certificates and new issues of such certificates may continue to hold the original certificate number issued before April 20, 2016.

Konformitätsbewertungsstelle, Sektor Explosionsschutz
On behalf of PTB:

Braunschweig, July 7, 2016

Dr.-Ing. F. Lienesch
Regierungsdirektor