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 PTB 11.0071	Issue No: 1	Certificate history:
			Issue No. 1 (2016-09-12)
Status:	**Current**	Page 1 of 5	Issue No. 0 (2011-08-11)
Date of Issue:	**2016-09-12**		

Applicant: **Weidmüller Interface GmbH & Co. KG**
Klingenbergstraße 16, 32758 Detmold
Germany

Equipment: **Explosion protected power distribution, switchgear and control gear combination type series Klippon TBe MH, Klippon TBe QL and Klippon TBe FS**

Optional accessory:

Type of Protection: **Intrinsic Safety, Equipment dust protection by enclosure**

Marking:

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

Approved for issue on behalf of the IECEx Certification Body: Dr.-Ing. F. Lienesch

Position: Head of Department "Explosion Protection in Sensor Technology and Instrumentation"

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:

Physikalisch-Technische Bundesanstalt (PTB)
Bundesallee 100
38116 Braunschweig
Germany

PTB
Physikalisch-Technische Bundesanstalt
Braunschweig und Berlin

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Manufacturer: **Weidmüller Interface GmbH & Co. KG**
Klingenbergstraße 16, 32758 Detmold
Germany

Additional Manufacturing location(s):

Weidmuller Pty Ltd.
43 Huntingwood Road
Huntingwood NSW
Australia

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 electrical 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 Edition:6.0	Explosive atmospheres - Part 0: General requirements
IEC 60079-11 : 2011 Edition:6.0	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
IEC 60079-15 : 2010 Edition:4	Explosive atmospheres - Part 15: Equipment protection by type of protection "n"
IEC 60079-26 : 2014-10 Edition:3.0	Explosive atmospheres – Part 26: Equipment with Equipment Protection Level (EPL) Ga
IEC 60079-31 : 2013 Edition:2	Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"

*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/PTB/ExTR16.0035/00

Quality Assessment Report:

AU/ITA/QAR07.0004/08 NL/DEK/QAR12.0052/02

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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The e xplosion 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. Depending on the type of protection or the protection level of the separately certified intrinsically safe apparatus installed, it is suitable for application in zone 0, zone 1 or zone 2.

CONDITIONS OF CERTIFICATION: NO

For "notes for manufacture and operation" reference is made to the annex.

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

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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Additional information:

For thermal and electrical specifications reference is made to the annex

Annex:

Annex to IECEx PTB 11.0071-Issue-No. 1.pdf

Applicant: Weidmüller Interface GmbH & Co.KG

Electrical apparatus: Explosion protected power distribution, switchgear and controlgear-combination, type series
Klippon TBe MH, Klippon TBe QL and Klippon TBe FS

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.

Physikalisch-Technische Bundesanstalt (PTB)
Bundesallee 100, 38116 Braunschweig, Germany
Postfach 33 45, 38023 Braunschweig, Germany
Telephone +49 531 592-0, Telefax +49 531 592-3605

Controlgear and distribution enclosure, type	max. number Proximitor, type 3300XL Ex ia/ib/ic, Ex nA	Temperature class	Permissible ambient temperature	max. number Displacement chain, type OD-105x Ex ia/ib/ic,	Temperature 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						
Klippon TB..765015						
Klippon TB..765020						
Klippon TB..916115						
Klippon TB..916120						
Klippon TB..987420		T5	- 35 °C … + 52 °C		T5	- 20 °C ... + 58 °C

Controlgear and distribution enclosure, type	max. number Rosemount Inc. model 248R Ex ia/ib/ic, Ex nA	Temperature class	minimum clearance	Permissible ambient temperature
Klippon TB..262620	5	T5 T6	26 mm 26 mm	-60 °C... +51 °C -60 °C... +31 °C
Klippon TB..303020	10	T5	26 mm	-60 °C... +47 °C
Klippon TB..352620		T6	26 mm	-60 °C... +27 °C
Klippon TB..403020				
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.

Controlgear and distribution enclosure, type	max. number Rosemount Inc. model 644R Ex ia/ib/ic	Temperature class	Permissible ambient temperature P_i = 1 W	max. number Rosemount Inc. model 644R Ex nA	Temperature 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.

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.

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