

CERTIFICATE

(1) EU-Type Examination

(2) **Equipment or protective systems intended for use in potentially explosive atmospheres - Directive 2014/34/EU**

(3) EU-Type Examination Certificate Number: **DEKRA 12ATEX0500 X** Issue Number: **3**

(4) Product: **Junction boxes and control stations Series TB-...-R-...**

(5) Manufacturer: **TechNed Benelux B.V.**

(6) Address: **Veersteeg 15, 4212 LR Spijk, The Netherlands**

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

(8) DEKRA Certification B.V., Notified Body number 0344 in accordance with Article 17 of 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 confidential test report number NL/DEK/ExTR13.0027/02.

(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 60079-1 : 2014
EN 60079-31 : 2014

EN 60079-7 : 2015 + A1 : 2018

except in respect of those requirements listed at item 18 of the Schedule.

(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. 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:



II 2 G Ex eb IIC T6 or T5 Gb

II 2(1)G Ex eb [ia Ga] IIC T6 or T5 Gb

II 2 G Ex db eb IIB T6 or T5 Gb

II 2(1)G Ex db eb [ia Ga] IIB T6 or T5 Gb

II 2 D Ex tb IIIC T80 °C or T100 °C Db

Other markings, depending on the applied components or safety level, is allowed

Date of certification: 19 December 2018

DEKRA Certification B.V.

R. Schuller
Certification Manager



(13) **SCHEDULE**

(14) **to EU-Type Examination Certificate DEKRA 12ATEX0500 X**

Issue No. 3

(15) **Description**

Stainless steel (SS316L) junction boxes (Series TB-JB-R or TB-JBP-R) and control stations (Series TB-CS-R), for fixed installation.

The junction boxes are provided with separately certified Ex e terminal blocks for non-intrinsically safe and/or intrinsically safe circuits. For intrinsically safe circuits, which may be in level of protection "ia", "ib" and/or "ic", the area for the terminals is marked, e.g. by a light blue colour.

The control boxes may be equipped with separately certified pilot lights and actuators in the front panel, in type of protection Ex db, Ex eb and/or Ex mb.

Inside the Ex eb / Ex tb enclosure Type TB-JB(P)-R812, an Ex db / Ex tb certified enclosure type EJB D (certificate INERIS 12ATEX0081 X) and an Ex db eb tb certified switch type GHG 26100 (certificate BVS 16ATEX E 079) may be mounted.

Ambient temperature ranges:

- junction boxes: -40 °C to +40 °C (T6 / T80 °C) or +50 °C (T5 / T100 °C),
- control stations: -20 °C to +40 °C (T6 / T80 °C) or +50 °C (T5 / T100 °C)

Technical data

The electrical data depend on the built-in terminals and equipment and is taken from the applicable certificates and manufacturers' data, but will not exceed the following:

Rated voltage:	max. 690 V (junction box); 500 V (isolator switch)
Rated current:	max. 500 A (junction box); 10 A (isolator switch)
Conductor cross section:	1,5 – 240 mm ²

Actual electrical data for the intended application is shown on the marking label and in the instructions provided with the terminal box or control station.

Degree of ingress protection according to EN 60529:

- junction box: IP66
- control station: IP65

Installation instructions

The instructions provided with the product shall be followed in detail to assure safe operation.

(16) **Report Number**

No. NL/DEK/ExTR13.0027/02

(13) **SCHEDULE**

(14) **to EU-Type Examination Certificate DEKRA 12ATEX0500 X**

Issue No. **3**

(17) **Specific conditions of use**

The following conditions of use apply only to the control station, not to the junction box:

1. For details regarding the flameproof joints of the Ex d EJB enclosure contact the manufacturer.
2. The control station provided with control units type ZBW4B... or ZBW5... is only suitable for applications with low risk of mechanical impact.
3. The control station provided with control units type ZBW5AJ..., ZBW5AD..., ZBW5AG..., ZBW4BA, ZBW4BPS... or ZBW5APS has to be protected from ultraviolet light.
4. The control station provided with heads type ZB4BP..., ZB4BH..., ZB4BV... or ZB5AV... is only suitable for applications with low risk of mechanical impact.

The user manual, prepared per serial number, shows the applicable conditions.

(18) **Essential Health and Safety Requirements**

Covered by the standards listed at item (9).

(19) **Test documentation**

As listed in Report No. NL/DEK/ExTR13.0027/02

(20) **Certificate history**

Issue 1 - 214541200	initial certificate (junction boxes only)
Issue 2 - 214541200	name change of the manufacturer
Issue 3 - 223136600	extension of scope with control stations; assessment to new editions of the applicable standards