



(1) **Supplementary EU - Type Examination Certificate No.6**

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

(3) EU - Type Examination Certificate number:

FTZÚ 09 ATEX 0059X

(4) Product: **Ground monitoring device type 8485/***-****

(5) Manufacturer: **R.STAHL Schaltgeräte GmbH**

(6) Address: **Am Bahnhof 30, 74638 Waldenburg, Germany**

(7) This supplementary certificate extends EC - Type Examination Certificate No. FTZÚ 09 ATEX 0059X to apply to products designed and constructed in accordance with the specification set out in the Schedule of the said certificate but having any variations specified in the Schedule attached to this certificate and the documents therein referred to.

(8) The Physical-Technical Testing Institute, Notified Body number 1026, in accordance with Articles 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26.02.2014, certifies that this product, as modified by this supplementary certificate, 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.

(9) In accordance with Article 41 of Directive 2014/34/EU, EC-Type Examination Certificates referring to 94/9/EC that were in existence prior to the date of application of 2014/34/EU (20.04.2016) may be referenced as if they were issued in accordance with Directive 2014/34/EU. Supplementary Certificates to such EC-Type Examination Certificates, and new issues of such certificates, may continue to bear the original certificate number issued prior to 20.04.2016.

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

EN IEC 60079-0:2018, EN 60079-1:2014, EN 60079-11:2012, ČSN EN 60079-31:2014

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

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

 **II 2G Ex db [ib] IIB T4 Gb – see cl. (15)**
II 2G Ex db ib [ib] IIB+H₂ T4 Gb – see cl. (15)
II 2D Ex ib [ib] tb IIIC T130°C Db

(12) This certificate is valid till: **30.04.2029**

Responsible person:

Dipl. Ing. Lukáš Martinák
Head of Certification Body



Date of issue: 23.04.2024

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Physical-Technical Testing Institute
Ostrava - Radvanice

(13)

Schedule

(14) **Supplementary EU - Type Examination Certificate No. 6
to FTZÚ 09 ATEX 0059X**

(15) Description of the variation to the Product:

The subject of this supplementary certificate is:

- Modification of certified apparatus.
- Extension of certificate validity.

The subject of the modification is:

- There are no design changes for 8485/111-42 rev.D, 8485/121-42 rev.E. The explosion proof group (IIB) and Ex ib output parameters remain unchanged.
- There is the change of Display board ExESDS 01036-52-002 from version A to B for 8485/111-42 rev.E, 8485/121-42 rev.E. The explosion proof group (IIB) and Ex ib output parameters remain unchanged.
- Version of the new type 8485/311-42 for group IIB+H₂; the explosion proof group and IS output parameters were changed, it is based on type 8485/111-42 rev.E.

On the type 8485/311-42 were changed:

- Cemented joint of sight glass:
The sight glass for variant IIB+H₂ was proposed with cement joint This sight glass replaced the original cylindrical joint sight glass.
- Change of the flanged joint of enclosure for group IIB+H₂:
Gap of flanged joint was modified to 0.04 mm.
- Change of Ex ib output parameters for group IIB+H₂:
U_o = 15.75 V I_o = 45 mA
C_o = 0.478 µF L_o = 150 µH

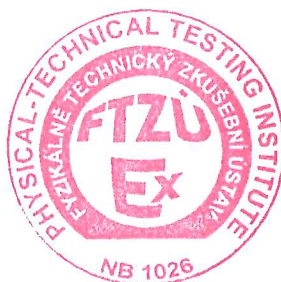
- Updating complete documentation for all types 8485/111-42 rev.D; 8485/121-42 rev.D; 8485/111-42 rev.E, 8485/121-42 rev.E, 8485/311-42 – see list of documentation.

The marking of the product according to the type:

- II 2G Ex db ib [ib] IIB T4 Gb**
for types 8485/111-42 rev.D; 8485/121-42 rev.D; 8485/111-42 rev.E, 8485/121-42 rev.E, 8485/311-42
- II 2G Ex db ib [ib] IIB+H₂ T4 Gb**
for type 8485/311-42
- II 2D Ex ib [ib] tB IIIC T130°C Db**
for types 8485/111-42 rev.D; 8485/121-42 rev.D; 8485/111-42 rev.E, 8485/121-42 rev.E, 8485/311-42

Responsible person:

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Head of Certification Body



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Physical-Technical Testing Institute
Ostrava - Radvanice

(13) **Schedule**

(14) **Supplementary EU - Type Examination Certificate No. 6
to FTZÚ 09 ATEX 0059X**

(16) Report Number: 09/0059/6

(17) Specific Conditions of Use:

1. Ambient temperature range: $-55^{\circ}\text{C} \leq T_a \leq +60^{\circ}\text{C}$
2. Verified values of the maximum gaps and minimum constructional length of flameproof joints of the enclosure for type 8485/***_** differ from relevant minimum and maximum values mentioned in standard. To obtain information about joints dimension it is necessary to contact the manufacturer.
3. There is prohibited combine intrinsically safe voltage with other voltage on the terminals XC2, XC4 and XC7, XC8.
4. The enclosure shall be installed to avoid a risk from propagating brush discharges for application in explosive dust atmosphere.


(18) Essential Health and Safety Requirements:

Compliance with the Essential Health and Safety Requirements is covered by standards mentioned in clause (10) of this supplementary certificate.

(19) Drawings and Documents:

Number	Revision	Sheets	Date	Description
NKO201500413	G	50	27.02.2024	Operating Manual
NKO202200598	C	48	27.11.2023	Operating Manual
Ex 11037-00-042	J	1	27.04. 2021	Complete cover plate - Label
Ex 11041-00-041	G	1	20.02. 2024	Complete cover plate - Label
Ex 11037-00-045	B	1	16.08. 2023	Complete cover plate - Label
Ex 11041-00-045	B	1	20.02. 2024	Complete cover plate - Label
Ex11037-00-046	A	1	31.08.2023	Complete cover plate - Label

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