

# 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 12ATEX0187 X** Issue Number: **4**

(4) Product: **Calorimeter, Type OHC-800 and Refractive-index Meter, Type FI-900**

(5) Manufacturer: **RIKEN KEIKI Co., Ltd.**

(6) Address: **2-7-6, Azusawa, Itabashi-ku, Tokyo, 174-8744, Japan**

(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/ExTR12.0060/03.

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

**EN IEC 60079-0 : 2018**

**EN 60079-1 : 2014**

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 db IIB + H<sub>2</sub> T4 Gb**

Date of certification: 7 July 2020

DEKRA Certification B.V.

R. Schuller  
Certification Manager



(13) **SCHEDULE**

(14) **to EU-Type Examination Certificate DEKRA 12ATEX0187 X**

Issue No. 4

(15) **Description**

Calorimeter, Type OHC-800 and Refractive-index meter, Type FI-900 analyses gasses.  
The aluminium enclosure in type of protection flameproof enclosures “d” contains sensors, electronics, display and is provided with cable glands and blanking plugs.

Ambient temperature range: -20 °C to +60 °C.

**Process gas data**

Process gas includes the gas to be analysed and a reference gas  
Temperature range: -20 °C to +60 °C.  
Pressure range: 80 kPa to 110 kPa absolute.

**Electrical data**

Supply voltage: 100 Vac 95 mA to 240 Vac 70 mA or 24 Vdc 190 mA  
Analogue Output: 4 - 20 mA, max 24 Vdc  
Digital communication: RS485  
Contact output: 30 Vdc, max 2 A or 240 Vac, max 1 A

**Installation instructions**

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

(16) **Report Number**

No. NL/DEK/ExTR12.0060/03.

(17) **Specific conditions of use**

Repair of the flameproof joints is not allowed.  
Fasteners have property class A2-70.

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

Covered by the standards listed at item (9).

(19) **Test documentation**

As listed in Report No. NL/DEK/ExTR12.0060/03.

(20) **Certificate history**

Issue 1	215524500	Initial certificate
Issue 2	510013500	Assessment per EN 60079-1 : 2014
Issue 3	223982500	Introduction of Refractive-index Meter, Type FI-900
Issue 4	224649000	Assessment per EN IEC 60079-0 : 2018 Non safety related changes to marking drawings