

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 24ATEX0036X** Issue Number: **0**

(4) Product: **Gas Detector and Pump, Type ****D58-DC*****

(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 228408400 issue 0.

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

EN IEC 60079-0 : 2018
EN ISO 80079-36 : 2016

EN 60079-1 : 2014
EN ISO 80079-37 : 2016

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 h IIB + H₂ T4 Gb

Date of certification: 18 July 2024

DEKRA Certification B.V.

R. Schuller
Certification Manager



Throughout this document, a point is used as the decimal separator.

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(13) **SCHEDULE**

(14) **to EU-Type Examination Certificate DEKRA 24ATEX0036X** Issue No. **0**

(15) **Description**

Gas Detectors, Type ****·D58·DC·*** are fixed mount, suction type gas detectors with 2 different detection principles as laid down in the type designation.

Pump, Type **RP·D58·DC** is used to force a process medium (gas).

The Gas Detectors and Pump include a pump to force the gas and a flow sensor to control the flow.

The pump is a non-electrical in type of protection constructional safety "c".
The other parts are in type of protection flameproof enclosures "d".

The examination of the gas detector does not include a judgment of the functional performance of the apparatus.

Ambient temperature range -20 °C to 53 °C.

Type designation

**	-	D58	·	DC	·	**
a		b		c		d

Code	Value	Designation	Remark or meaning
a	GD	Gas detector	-
	SD	Smart Detector	-
	RP	Pump	-
b	D58	Type number	Fixed value
c	DC	Direct Current power supply	Fixed value
d	blank	Detection principle	Catalytic combustion method (code a = GD or SD) None (code a = RP)
	GH		Semiconductor method (code a = GD or SD)

(13) **SCHEDULE**

(14) **to EU-Type Examination Certificate DEKRA 24ATEX0036X** Issue No. 0

Electrical data

Type	Power supply	Output signal	Sensor power supply ¹⁾	Contact output
SD-D58•DC	24 Vdc 360 mA	4-20 mA, 24 Vdc, max. 22 mA or 4-20 mA, 24 Vdc, max. 22 mA with HART	-	250 Vac, 0.5 A 30 Vdc, 0.5 A
GD-D58•DC		-	5.0 Vdc 200 mA or 3.0 Vdc 430 mA	-
SD-D58•DC• GH		4-20 mA, 24 Vdc, max. 22 mA or 4-20 mA, 24 Vdc, max. 22 mA with HART	-	250 Vac, 0.5 A 30 Vdc, 0.5 A
GD-D58•DC• GH		-	6.5 Vdc 205 mA or 3.5 Vdc 350 mA	-
RP-D58•DC		-	-	250 Vac, 0.5 A 30 Vdc, 0.5 A

Note 1): Gas sensor powered from an external indicator that also reads the sensor output.

Installation instructions

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

(16) **Report Number**

228408400 issue 0.

(17) **Specific conditions of use**

- Fasteners from stainless steel property class A2-70 are used. The fasteners shall only be replaced with identical ones.
- The flameproof joints are not intended to be repaired.
- The unearthed conductive label has a capacitance of 15 nF. Suitability in the specific application shall be determined by the user.

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

Covered by the standards listed at item (9).

(19) **Test documentation**

As listed in Report No. 228408400 issue 0.