



1 **EU-TYPE EXAMINATION CERTIFICATE**

2 Equipment intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU

3 Certificate Number: **KIWA 14ATEX0023X** Issue: **2**

4 Equipment: **Rail mounted temperature transmitters Model IPAQ R520X and IPAQ R520XS**

5 Applicant: **INOR Process AB**

6 Address: **Travbanegatan 10, 213 77 Malmö  
Sweden**

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

8 CSA Group Netherlands B.V., notified body number 2813 in accordance with Articles 17 and 21 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in the confidential reports listed in Section 14.2.

9 Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the schedule to this certificate, has been assured by compliance with the following documents:

EN IEC 60079-0:2018 EN 60079-11:2012

10 If the sign 'X' is placed after the certificate number, it indicates that the equipment is subject to Specific Conditions of Use identified in the schedule to this certificate.

11 This EU-Type Examination Certificate relates only to the design and construction of the specified equipment. If applicable, further requirements of this Directive apply to the manufacture and supply of this equipment.

12 The marking of the equipment shall include the following:



II 2(1)G

Ex ia[ia Ga] IIC T6...T4 Gb

Ta = -20°C to+50°C for temperature class T6

Ta = -20°C to+65°C for temperature class T5

Ta = -20°C to+70°C for temperature class T4

Signed:

M Halliwell

Title: Director of Operations



Project Number 80213730

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CSA Group Netherlands B.V. Utrechtseweg 310, Building B42, 6812AR Arnhem, The Netherlands



## SCHEDULE

### EU-TYPE EXAMINATION CERTIFICATE

KIWA 14ATEX0023X  
Issue 2

#### 13 DESCRIPTION OF EQUIPMENT

Rail mounted Temperature Transmitters Model IPAQ R520X and Model IPAQ R520XS are loop powered devices that convert the measurement signals of temperature sensors (RTD and thermocouples) or resistance or mV signals into a 4 - 20 mA signal with HART communication.

The transmitter is provided with two galvanically connected sensor channels that are isolated from all other circuits to a test voltage of 500 Vac.

The transmitter is provided with a USB connector for connection of a programming device.

Ambient temperature range: -20 °C to +50 °C for temperature class T6;  
-20 °C to +65 °C for temperature class T5;  
-20 °C to +70 °C for temperature class T4.

#### Electrical data

Supply and output circuit (terminals 21 and 22):

in type of protection intrinsic safety Ex ia IIC, only for connection to a certified intrinsically safe circuit; with following maximum values:

U<sub>i</sub> = 30 V; I<sub>i</sub> = 100 mA; P<sub>i</sub> = 0,9 W; C<sub>i</sub> = 12,1 nF; L<sub>i</sub> = 10 µH.

Sensor circuits (terminals 1 ... 8):

in type of protection intrinsic safety Ex ia IIC, with following maximum values:

U<sub>o</sub> = 6,6 V; I<sub>o</sub> = 28,9 mA; P<sub>o</sub> = 46 mW; C<sub>o</sub> = 581 nF; L<sub>o</sub> = 25 mH.

Maintenance Communication Channel (MMC) (mini USB connector):

Only for connection to the associated ICON interface.

#### Instructions

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

**Variation 1** – This variation introduced the following changes:

- i. Label modified to reflect the physical address.
- ii. Minor editorial changes to various drawings.
- iii. Upgrade of standard from EN 60079-0:2012 +A11 to EN/IEC 60079-0:2018 and removal of EN 60079-26:2007.

#### 14 DESCRIPTIVE DOCUMENTS

##### 14.1 Drawings

Refer to Certificate Annexe.

##### 14.2 Associated Reports and Certificate History

| Issue | Date             | Report number | Comment   |
|-------|------------------|---------------|---|
| 1     | 17 February 2015 | 141201002-1   | The release of the prime certificate.   |
| 2     | 11 July 2024     | R80213731A    | This Issue covers the following changes: <ul style="list-style-type: none"> <li>• EC Type-Examination Certificate in accordance with 94/9/EC updated to EU Type-Examination Certificate in accordance with Directive</li> </ul> |

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SCHEDULE

EU-TYPE EXAMINATION CERTIFICATE

KIWA 14ATEX0023X  
Issue 2

| Issue | Date | Report number | Comment  |
|-------|------|---------------|--|
|       |      |               | <p>2014/34/EU. (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 April 2016) may be referenced as if they were issued in accordance with Directive 2014/34/EU. Variations to such EC Type-Examination Certificates may continue to bear the original certificate number issued prior to 20 April 2016.)</p> <ul style="list-style-type: none"> <li>The introduction of Variation 1.</li> </ul> |

15 SPECIFIC CONDITIONS OF USE (denoted by X after the certificate number)

- 15.1 The communication port (USB connection) may only be connected to the associated ICON interface, if the temperature transmitter is outside the hazardous area and with no sensor connected to it that is in the hazardous area.
- 15.2 For the applicable ambient temperature range, refer to section 13.
- 15.3 The transmitter shall be mounted into a suitable enclosure that provides a degree of protection of at least IP20.

16 ESSENTIAL HEALTH AND SAFETY REQUIREMENTS OF ANNEX II (EHSRs)

The relevant EHSRs that are not addressed by the standards listed in this certificate have been identified and individually assessed in the reports listed in Section 14.2.

17 CONDITIONS OF MANUFACTURE

- 17.1 The use of this certificate is subject to the Regulations Applicable to Holders of CSA Group Netherlands B.V. certificates.
- 17.2 Holders of EU-Type Examination Certificates are required to comply with the conformity to type requirements defined in Article 13 of Directive 2014/34/EU.

# Certificate Annexe



Certificate Number: KIWA 14ATEX0023X  
Equipment: Rail mounted temperature transmitters Model  
IPAQ R520X and IPAQ R520XS  
Applicant: INOR Process AB

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Issue 1 – Refer to section 14.2 for the drawings detailed in the associated reports.

## Issue 2

| Drawing        | Sheets | Rev. | Date (Stamp) | Title            |
|----------------|--------|------|--------------|------------------|
| APPR DL 821134 | 1 of 1 | 1    | 09 July 24   | List of drawings |

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