



1 **EU-TYPE EXAMINATION CERTIFICATE**

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

3 Certificate Number: **KIWA 14ATEX0003X** Issue: **3**

4 Equipment: **Temperature Transmitter Model IPAQ C520X and Model IPAQ C520XS**

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 1G

Ex ia IIC T6...T4 Ga

Ta = -40°C to +60°C for temperature class T6

Ta = -40°C to +75°C for temperature class T5

Ta = -40°C to +85°C for temperature class T4

Signed:

M Halliwell

Title:

Director of Operations



Project Number 80213728

This certificate and its schedules may only be reproduced in its entirety and without change
CSA Group Netherlands B.V. Utrechtseweg 310, Building B42, 6812AR Arnhem, The Netherlands



SCHEDULE

EU-TYPE EXAMINATION CERTIFICATE

KIWA 14ATEX0003X
Issue 3

13 DESCRIPTION OF EQUIPMENT

In-head Temperature Transmitters Model IPAQ C520X and Model IPAQ C520XS 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 designed to be mounted into a Form B or larger connection head according to EN 50446.

The transmitter is provided with a USB connector for service and configuration.

Ambient temperature range: -40 °C to +60 °C for temperature class T6;
-40 °C to +75 °C for temperature class T5;
-40 °C to +85 °C for temperature class T4.

Electrical data

Output circuit (terminals 6 and 7): In type of protection intrinsic safety Ex ia IIC, only for connection to a certified intrinsically safe circuit, with following maximum values:
 $U_i = 30 \text{ V}$, $I_i = 100 \text{ mA}$, $P_i = 0,9 \text{ W}$, $C_i = 12,1 \text{ nF}$, $L_i = 10 \text{ }\mu\text{H}$.

Sensor input circuit (terminals 1 ... 5): In type of protection intrinsic safety Ex ia IIC, with following maximum values:
 $U_o = 6,6 \text{ V}$, $I_o = 26,4 \text{ mA}$, $P_o = 46 \text{ mW}$, $C_o = 583,5 \text{ nF}$, $L_o = 25 \text{ mH}$

Communication port (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. The in-head Temperature Transmitters Model IPAQ C520X and Model IPAQ C520XS has been modified in accordance with the test documentation, refer to section 14.2. The changes concern the internal construction.

Variation 2 – 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 EN 60079-26:2007 has been removed.

14 DESCRIPTIVE DOCUMENTS

14.1 Drawings

Refer to Certificate Annexe.



SCHEDULE

EU-TYPE EXAMINATION CERTIFICATE

KIWA 14ATEX0003X
Issue 3

14.2 Associated Reports and Certificate History

Issue	Date	Report number	Comment
1	07 July 2014	140501303-1	The release of the prime certificate.
2	08 October 2014	140501303-1	The introduction of variation 1.
3	11 July 2024	R80213729A	This Issue covers the following changes: <ul style="list-style-type: none">• EC Type-Examination Certificate in accordance with 94/9/EC updated to EU Type-Examination Certificate in accordance with Directive 2014/34/EU. <i>(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.)</i>• The introduction of Variation 2.

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.

Project Number 80213728

This certificate and its schedules may only be reproduced in its entirety and without change
CSA Group Netherlands B.V. Utrechtseweg 310, Building B42, 6812AR Arnhem, The Netherlands

Certificate Annexe



Certificate Number: KIWA 14ATEX0003X
Equipment: Temperature Transmitter Model IPAQ C520X and Model IPAQ C520XS
Applicant: INOR Process AB

Issue 1 & 2 – Refer to section 14.2 for the drawings detailed in the associated reports.

Issue 3

Drawing	Sheets	Rev.	Date (Stamp)	Title
APPR DL 821133	1 of 1	B	17 Jun 24	List of drawings

Project Number 80213728

This certificate and its schedules may only be reproduced in its entirety and without change
CSA Group Netherlands B.V. Utrechtseweg 310, Building B42, 6812AR Arnhem, The Netherlands