

1 EC-Type Examination Certificate

2 Equipment and protective systems intended for use in potentially explosive atmospheres – Directive 94/9/EC

3 EC-Type Examination Certificate Number: **KIWA 15ATEX0033 X Issue: 1**

4 Equipment: **Temperature Transmitter Model IPAQ C202X**

5 Manufacturer: **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 Kiwa Nederland B.V., notified body number 0620 in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential ATEX Assessment Report No. 150602544-1.

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

EN 60079-0 : 2012 + A11 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, specified in the schedule to this certificate.

11 This EC-Type Examination Certificate relates only to the design, examination and tests of the specified equipment. Further requirements of the Directive apply to the manufacturing process and supply of this equipment. These are not covered by this certificate.

12 The marking of the equipment shall include the following:



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Pieter van Breugel
Certification Officer

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© Integral publication of this certificate in its entirety and without any change is allowed.

13 SCHEDULE

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15.1 Description

In-head Temperature Transmitter Model IPAQ C202X is a loop powered device that converts the measurement signal of a 3-wire RTD temperature sensor into a 4 - 20 mA signal. The transmitter is designed to be mounted into a DIN standard connection head or in a similar suitable connection box.

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

15.2 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:

$U_i = 30 \text{ V}$, $I_i = 100 \text{ mA}$, $P_i = 0,9 \text{ W}$, $C_i = 23,1 \text{ nF}$, $L_i = 10 \text{ }\mu\text{H}$.

Sensor input circuit (terminals 1 ... 3):

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

$U_o = 30 \text{ V}$, $I_o = 40 \text{ mA}$, $P_o = 300 \text{ mW}$, $C_o = 9 \text{ nF}$, $L_o = 10 \text{ mH}$.

Communication interface (mini USB connector):

Only for connection to the associated ICON Interface.

All input and output circuits are galvanically connected with each other.

15.3 Thermal data

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.

15.4 Instructions

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

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17 Specific conditions of use

- 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.
- For the applicable ambient temperature range, refer to section 15.3.
- The transmitter shall be mounted into a suitable enclosure that provides a degree of protection of at least IP20.

13 **SCHEDULE**

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18 **Essential Health and Safety Requirements**

All relevant Essential Health and Safety Requirements are covered by the standards listed at section 9.

19 **Test documentation**

As listed in ATEX Assessment Report No. 150602544-1.