CERTIFICATE

1 EU – Type Examination Certificate

2 Equipment or Protective System Intended for use in Potentially Explosive Atmospheres
Directive 2014/34/EU

3 EU – Type Examination Certificate Number: **KIWA 16ATEX0040 X Issue: 2**

4 Product: **Temperature Transmitter, Model IPAQ R330X**

5 Manufacturer: **INOR Process AB**

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

7 This product 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 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 ATEX Assessment Report No. No. 161000016-1, issue 2.

9 Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
EN IEC 60079-0 : 2018 **EN 60079-11 : 2012**

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 1 G Ex ia IIC T6 ... T4 Ga

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Ronald Karel
Managing Director

Issue date: 28 February 2019

First issue: 24 January 2017

This certificate shall, as far as applicable, be revised before the date of cessation of presumption of conformity of (one of) the included standards above as communicated in the Official Journal of the European Union.

13 **SCHEDULE**

14 **EU – Type Examination Certificate KIWA 16ATEX0040 X Issue No. 2**

15.1 **Description of Product**

Rail mounted Temperature Transmitter Model IPAQ R330X with a non-metallic enclosure, is a loop powered device that converts the measurement signals of temperature sensors (RTD or thermocouple) or resistance or mV signals into a 4 - 20 mA output signal.

The Transmitter is provided with a mini USB port and NFC technology for service and configuration.

15.2 **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_i = 30 V; I_i = 100 mA; P_i = 0,9 W; C_i = 23,1 nF; L_i = 20 µH.

Sensor circuits (terminals 1 ... 4):
In type of protection intrinsic safety Ex ia IIC, with following maximum values:
U_o = 6,5 V; I_o = 11,7 mA; P_o = 19,1 mW; C_o = 24 µF; L_o = 400 mH.

The sensor circuits are infallible galvanically isolated from the power supply and output circuit and withstand a test voltage of 500 VAC.

Communication interface (mini USB port):
Only for connection to the associated ICON-X or ICON Interface.

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 product shall be followed in detail to assure safe operation.

16 **ATEX Assessment Report Number**

161000016-1, issue 2.

17 **Specific Conditions of Use**

- The communication interface (USB connection) may only be connected to the associated ICON Interface if the temperature transmitter is outside of the hazardous area.
  If certified ICON-X interface is used, a connected sensor may be located in the hazardous area.
  If non-Ex ICON interface is used, a connected sensor shall not be located 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

14 **EU – Type Examination Certificate KIWA 16ATEX0040 X Issue No. 2**

18 **Essential Health and Safety Requirements**

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

19 **Drawings and Documents**

As listed in ATEX Assessment Report No. 161000016-1, issue 2.

20 **Description of Certificate Changes (for Issue 2 and above)**

Issue 2, Kiwa reference no. 181001772:
- Change of the electronics providing improved electrical parameters for the sensor circuits and a galvanic isolation between the supply and output circuit and the sensor circuits.
- Update of a standard from EN 60079-0 : 2012 + A11 : 2013 to EN IEC 60079-0 : 2018.