



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: IECEx KIWA 17.0027X

Issue No: 0

Certificate history:

Issue No. 0 (2018-03-15)

Status: Current

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Date of Issue: 2018-03-15

Applicant: INOR Process AB
Travbanegatan 10
213 77 Malmö
Sweden

Equipment: Temperature Transmitter, Model IPAQ C530X

Optional accessory:

Type of Protection: Ex i

Marking:

Ex ia IIC T6 ... T4 Ga

Approved for issue on behalf of the IECEx
Certification Body:

Pieter van Breugel

Position:

Certification Officer

Signature:

(for printed version)

Date:

15 March 2018

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting the [Official IECEx Website](http://www.iecex.com).

Certificate issued by:

Kiwa Nederland B.V. (Unit Kiwa ExVision)
Wilmersdorf 50
7327 AC Apeldoorn
P.O. Box 137
The Netherlands





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Manufacturer: **INOR Process AB**
Travbanegatan 10
213 77 Malmö
Sweden

Additional Manufacturing location(s):

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended.

STANDARDS:

The apparatus and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:

IEC 60079-0 : 2011 Explosive atmospheres - Part 0: General requirements
Edition:6.0

IEC 60079-11 : 2011 Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition:6.0

This Certificate does not indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in

Test Report:

NL/KIWA/ExTR17.0029/00

Quality Assessment Report:

DK/ULD/QAR11.0003/04



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

In-head Temperature Transmitter Model IPAQ C530X 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 signal with HART communication.

The transmitter is designed to be mounted into a Form B or larger connection head according to EN 50446 / DIN 43729.

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

Electrical data

Supply and 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:

$$U_i = 30 \text{ V}; I_i = 100 \text{ mA}; P_i = 0.9 \text{ W}; C_i = 23.1 \text{ nF}; L_i = 20 \text{ }\mu\text{H}.$$

Sensor circuits (terminals 1 ... 5):

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

$$U_o = 6.5 \text{ V}; I_o = 11.7 \text{ mA}; P_o = 19.1 \text{ mW}; C_o = 24 \text{ }\mu\text{F}; L_o = 400 \text{ mH}.$$

Communication port (mini USB connector):

Only for connection to the associated ICON-X or ICON Interface.

The USB circuit is protected in accordance with the requirements of type of protection intrinsic safety Ex ia IIC, and has following maximum values (for information only):

$$U_i = 10 \text{ V}, I_i = 100 \text{ mA}, P_i = 0.25 \text{ W} \text{ and} \\ U_o = 30 \text{ V}, I_o = 18 \text{ mA}, P_o = 135 \text{ mW}, C_o = 66 \text{ nF}, L_o = 40 \text{ mH}.$$

SPECIFIC CONDITIONS OF USE: YES as shown below:

- The communication port (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 the General product information.
- The transmitter shall be mounted in to a suitable enclosure that provides a degree of protection of at least IP20.



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Additional information:

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.