

TM	IECEx Certificate of Conformity			
Certificate No.:	IECEx KIWA 17.0029X	Page 2 of 4		
Date of issue:	2021-05-26	Issue No: 1		
Manufacturer:	INOR Process AB Travbanegatan 10 213 77 Malmö Sweden			
Additional manufacturing locations:				
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 equipment 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 60079-0:2017 Edition:7.0	Explosive atmospheres - Part 0: Equipment - General requirements			
IEC 60079-11:2011 Edition:6.0	Explosive atmospheres - Part 11: Eq	uipment protection by intrinsic safety "i"		
		e compliance with safety and performance requirements ressly 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 Reports:

NL/KIWA/ExTR17.0030/00

NL/KIWA/ExTR17.0030/01

Quality Assessment Report:

DK/ULD/QAR11.0003/06



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

2021-05-26

Rail mounted Temperature Transmitter Model IPAQ R530X, 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 with HART communication.

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

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:

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

Sensor circuits (terminals 1 ... 4): 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 sensor circuits are infallible galvanically isolated from the power supply and output circuit and withstand a test voltage of 500 VAC for 1 minute.

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):

 $U_{\rm i}$ = 10 V, $I_{\rm i}$ = 100 mA, $P_{\rm i}$ = 0.25 W and $U_{\rm o}$ = 30 V, $I_{\rm o}$ = 18 mA, $P_{\rm o}$ = 135 mW, $C_{\rm o}$ = 66 nF, $L_{\rm o}$ = 40 mH.

Refer to the Annexe for Thermal Data

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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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above) This issue recognises the following changes;

1. Change of electronics and printed circuit board layout

- 2. Update of the ambient temperature range related to the supply input power parameter
- Update of the marking plates, installation manual and control drawing
 Update of a standard from IEC 60079-0 edition 6 to edition 7.

Annex:

IECEx KIWA 17.0029X Issue 1 Annexe.pdf

Annexe to: IECEx KIWA 17.0029X Issue 1

Applicant: INOR Process AB



Apparatus: Temperature Transmitter, Model IPAQ R530X

Ambient temperature range:

P i	Temperature class	Ambient temperature range
900 mW	Т6	-40 °C to +55 °C
	Τ5	-40 °C to +70 °C
	Τ4	-40 °C to +85 °C
700 mW	Т6	-40 °C to +60 °C
	Τ5	-40 °C to +75 °C
	Τ4	-40 °C to +85 °C

Full certificate change history

Issue 1 – this Issue introduced the following changes:

- i. Change of electronics and printed circuit board layout.
- ii. Update of the ambient temperature range related to the supply input power parameter.
- iii. Update of the marking plates, installation manual and control drawing.
- iv. Update of a standard from IEC 60079-0 edition 6 to edition 7.