



# IECEX Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit [www.iecex.com](http://www.iecex.com)

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Issue 0 (2015-02-17)

Status: **Current** Issue No: 1

Date of Issue: 2024-07-11

Applicant: **INOR Process AB**  
PO Box 9125  
20039 Malmö;  
Travbanegatan 10, 21377 Malmö  
**Sweden**

Equipment: **Temperature Transmitter Model IPAQ R520X and Model IPAQ R520XS**

Optional accessory:

Type of Protection: **Ex ia**

Marking: Ex ia [ia Ga] IIC T6 ... T4 Gb  
Ta = -20°C to+50°C for temperature class T6  
Ta = -20°C to+65°C for temperature class T5  
Ta = -20°C to+70°C for temperature class T4

Approved for issue on behalf of the IECEx  
Certification Body:

**Dave Magee**

Position:

**Senior Director of Operations, Toronto**

Signature:  
(for printed version)

Date:  
(for printed version)

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**CSA Group**  
178 Rexdale Blvd  
Toronto Ontario M9W 1R3  
Canada





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21377 Malmö  
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Manufacturing  
locations: **INOR Process AB**  
Travbanegatan 10  
21377 Malmö  
Sweden

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](#) Explosive atmospheres - Part 0: Equipment - General requirements  
Edition:7.0

[IEC 60079-11:2011](#) Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"  
Edition:6.0

This Certificate **does not** indicate compliance with 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 Reports:

[NL/KIWA/ExTR15.0001/00](#)

[NL/KIWA/ExTR15.0001/01](#)

Quality Assessment Report:

[DK/ULD/QAR11.0003/09](#)



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## EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

Rail mounted Temperature Transmitters Model IPAQ R520X and Model IPAQ R520XS 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 provided with two galvanically connected sensor channels that are isolated from all other circuits to a test voltage of 500 Vac.

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

Ambient temperature range:

-20 °C to +50 °C for temperature class T6;

-20 °C to +65 °C for temperature class T5;

-20 °C to +70 °C for temperature class T4.

## Electrical data

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:

$U_i = 30 \text{ V}$ ,  $I_i = 100 \text{ mA}$ ,  $P_i = 0.9 \text{ W}$ ,  $C_i = 12.1 \text{ nF}$ ,  $L_i = 10 \text{ }\mu\text{H}$ .

Sensor input circuit (terminals 1 ... 8): In type of protection intrinsic safety Ex ia IIC, with following maximum values:

$U_o = 6.6 \text{ V}$ ,  $I_o = 28.9 \text{ mA}$ ,  $P_o = 46 \text{ mW}$ ,  $C_o = 581 \text{ nF}$ ,  $L_o = 25 \text{ mH}$ .

Communication port (mini USB connector):

Only for connection to the associated ICON Interface

## 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 the hazardous area and with no sensor connected to it that is in the hazardous area.

The transmitter shall be mounted into 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 is issue, issue 1, introduces the following changes:

1. Label modified to reflect the physical address
2. Minor editorial changes to various drawings
3. Upgrade of standard from IEC 60079-0:2011 Edition 6.0 to IEC 60079-0:2017 to Edition 7.0 and removal of IEC 60079-26:2006 Ed 2.0