



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 14.0010X Issue No: 0 Certificate history:
Issue No. 0 (2015-02-17)

Status: **Current** Page 1 of 3

Date of Issue: **2015-02-17**

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

Electrical Apparatus: **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**

*Approved for issue on behalf of the IECEx
Certification Body:*

Pieter van Breugel

Position:

Certification Officer

*Signature:
(for printed version)*

Date:


2015-02-17

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)
Wilmsdorf 50
7327 AC Apeldoorn
P.O. Box 137
7300 AC Apeldoorn
The Netherlands

kiwa 
Partner for progress



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Manufacturer: **INOR Process AB**
Travbanegatan 10
21377 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 electrical 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 Edition:6.0	Explosive atmospheres - Part 0: General requirements
IEC 60079-11 : 2011 Edition:6.0	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "I"
IEC 60079-26 : 2006 Edition:2	Explosive atmospheres - Part 26: Equipment with equipment protection level (EPL) Ga

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/ExTR15.0001/00](#)

Quality Assessment Report:

[DK/ULD/QAR11.0003/02](#)



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Schedule

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

CONDITIONS OF CERTIFICATION: 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.