



# 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](http://www.iecex.com)

Certificate No.: IECEx KIWA 14.0001X Issue No: 0 Certificate history:  
Status: Current Page 1 of 3 Issue No. 0 (2014-10-17)

Date of Issue: 2014-10-17

Applicant: **INOR Process AB**  
PO Box 99125  
20039 Malmö  
Sweden

Electrical Apparatus: **Temperature Transmitter Model IPAQ C520X**  
*Optional accessory:*

Type of Protection: **Ex Ia**

Marking: Ex Ia IIC T6 ... T4 Ga

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

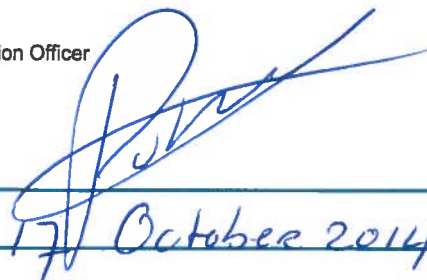
Pieter van Breugel

*Position:*

Certification Officer

*Signature:  
(for printed version)*

*Date:*

  
17 October 2014

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

**kiwa**   
Partner for progress



# IECEX Certificate of Conformity

Certificate No: IECEX KIWA 14.0001X Issue No: 0  
Date of Issue: 2014-10-17 Page 2 of 3  
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 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:

<b>IEC 60079-0 : 2011</b> Edition:6.0	Explosive atmospheres - Part 0: General requirements
<b>IEC 60079-11 : 2011</b> Edition:6.0	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "I"
<b>IEC 60079-26 : 2006</b> 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/ExTR14.0001/00](#)

Quality Assessment Report:

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



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Certificate No: IECEx KIWA 14.0001X

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Page 3 of 3

## Schedule

### EQUIPMENT:

*Equipment and systems covered by this certificate are as follows:*

In-head Temperature Transmitters Model IPAQ C520X and Model IPAQ C520XS 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 designed to be mounted into a Form B or larger connection head according to DIN 43729.

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

#### 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.

#### Electrical data

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:

$U_i = 30 \text{ V}$ ,  $I_i = 100 \text{ mA}$ ,  $P_i = 0,9 \text{ W}$ ,  $C_i = 12,1 \text{ nF}$ ,  $L_i = 10 \text{ }\mu\text{H}$ .

Sensor input circuit (terminals 1 ... 5): In type of protection intrinsic safety Ex Ia IIC, with following maximum values:

$U_o = 6,6 \text{ V}$ ,  $I_o = 26,4 \text{ mA}$ ,  $P_o = 46 \text{ mW}$ ,  $C_o = 583,5 \text{ nF}$ ,  $L_o = 25 \text{ mH}$

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.