



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

Certificate No.: **IECEX KIWA 14.0001X** Page 1 of 4 [Certificate history:](#)
Status: **Current** Issue No: 1 [Issue 0 \(2014-10-17\)](#)
Date of Issue: 2024-07-11
Applicant: **INOR Process AB**
PO Box 99125
20039 Malmö
Sweden
Equipment: **Temperature Transmitter Model IPAQ C520X and Model IPAQ C520XS**
Optional accessory:
Type of Protection: **Ex ia**
Marking: **Ex ia IIC T6 ... T4 Ga**

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)

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 www.iecex.com or use of this QR Code.



Certificate issued by:

CSA Group
178 Rexdale Blvd
Toronto Ontario M9W 1R3
Canada





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

Manufacturing
locations: **INOR Process AB**
Travbanegatan 10
213 77 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/ExTR14.0001/00](#)

[NL/KIWA/ExTR14.0001/01](#)

Quality Assessment Report:

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



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

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 EN 50446. The transmitter is provided with a USB connector for service and configuration.

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

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 IEC 60079-26:2006 has been removed.