

[1] **EC-TYPE EXAMINATION CERTIFICATE**



[2] **Equipment or Protective System intended for use
in Potentially Explosive Atmospheres
Directive 94/9/EC**

[3] EC-Type Examination Certificate Number: DEMKO 03 ATEX 134461X

[4] Equipment: **Intelligent Temperature Transmitter, IPAQ-LX**

[5] Manufacturer: **Inor Process AB**

[6] Address: **PO Box 9125, SE-200 39 Malmö, Sweden**

[7] This equipment or protective system and any acceptable variation there to is specified in the schedule to this certificate and the documents therein referred to.

[8] UL International Demko A/S, notified body number 0539 in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to design and construction of equipment and protective systems intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential report no. 134461

[9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
EN 50014: 1997 E incl. A1+A2 EN 50020: 2002 E

[10] If the sign "X" is placed after the certificate number, it indicates that the equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate.

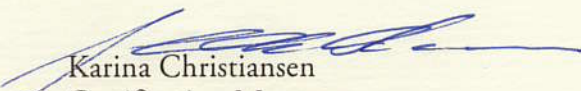
[11] This EC-Type examination certificate relates only to the design, examination and tests of the specified equipment or protective system in accordance to the Directive 94/9/EC. Further requirements of the Directive apply to the manufacturing process and supply of this equipment or protective system. These are not covered by the certificate.

[12] The marking of the equipment or protective system shall include the following:

⊕ II (1)G [EEx ia] IIC

On behalf of UL International Demko A/S

Herlev, 2003-04-28


Karina Christiansen
Certification Manager

UL International Demko A/S

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Certificate: 03 ATEX 134461X

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[13]

Schedule

[14]

EC-TYPE EXAMINATION CERTIFICATE No. DEMKO 03 ATEX 134461X

[15]

Description of Equipment or protective system

IPAQ-LX is an isolated 2-wire transmitter intended for temperature measurement in process industry. The input signal is either of resistance, mA or voltage type. The output signal is standard 4-20 mA. Power to the transmitter is the same as the output. The transmitter is made for mounting on a standard DIN rail. The transmitter is calibrated and configured with a PC, which can be connected to the transmitter via a separate connector. When calibrate/ configure 'online' with the input connected to hazardous area the ATEX certified version of IPRO-X cable must be used. The transmitter is intended to be mounted outside hazardous area and powered with an intrinsic safe power supply unit. The input of the transmitter can be connected to a temperature sensor located in hazardous area.

Temperature range

Ambient temperature range

-20 °C to +70 °C

Temperature class

The transmitter is to be placed outside hazardous area.

Electrical data

Intrinsically safe specifications:

The equipment must be electrically connected (terminal 5 and 6) via a certified isolating interface/ zener barrier -and shall be placed outside the hazardous area.

U_i : 30 V

I_i : 100 mA

P_i : 0,9 W

L_i : 0 mH

C_i : 1 nF

Terminal 1-2-3-4 (Intrinsically safe sensor terminals)

U_o : 30 V

I_o : 27 mA

L_o : 50 mH

C_o : 52 nF

[16]

Report No.

Project Report No.: 134461-01 and 134461-02

UL International Demko A/S

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Certificate: 03 ATEX 134461X

Report: 134461-02

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