

[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 02 ATEX 132033

[4] Equipment: **Two-wire Inhead Transmitter, IPAQ-HX**

[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. 132033-01

[9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
EN 50014: 1997 E incl. A1+A2 EN 50020: 1994 E EN50284: 1999E

[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.

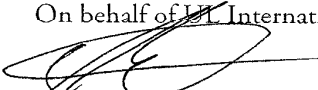
[11] This EC-Type examination certificate relates only to the design, examination and tests of the specified equipment or protective system in accordance to the Directive 94/9/EC. Further requirements of the Directive apply to the manufacturing process and supply of this equipment or protective system.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

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

Ex II 1G EEx ia IIC T4-T6

On behalf of **UL International Demko A/S**

Herlev, 2002-05-15


Steen Lumby
Certification Manager

UL International Demko A/S

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Certificate: 02 ATEX 132033

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Schedule

EC-TYPE EXAMINATION CERTIFICATE No. DEMKO 02 ATEX 132033

[13]

[14]

[15] Description of Equipment:

The IPAQ-HX is a two-wire transmitter intended for temperature measurements in process industry. The transmitter is made for mounting in DIN standard head. The transmitter is calibrated and configured with a PC, which can be connected to the transmitter via an outlet. The transmitter is intended to be mounted in hazardous area. The transmitter is powered with an intrinsic safe power supply unit, which is mounted outside the hazardous area.

[16] Report No.:

132033-01

Drawings:

The Schedule drawings are listed in the document entitled "List of scheduled and related drawings 2002-05-06".

The manufacturer shall inform the notified body concerning all modifications to the technical documentation as described in ANNEX III to Directive 94/9/EC of the European Parliament and the Council of 23 March 1994.

The certificate entitles the licensee to provide the product with the registered mark $\text{\textcircled{D}}$ and the Epsilon-x mark $\text{\textcircled{E}}$.

[17] Special conditions for safe use:

Input (Sensor)

U_o : 30 V
 I_o : 25 mA
 P_o : 188 mW
 L_o : 50 mH
 C_o : 66 nF

Output (current loop)

U_i : 30 V
 I_i : 100 mA
 P_i : 0,9 W
 L_i : 0 mH
 C_i : 0 μ F

The equipment must be electrically connected via an approved or certified isolating interface/zener barrier placed outside the hazardous area.

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The transmitter is calibrated and configured with a PC, which can be connected to the transmitter via an outlet. The transmitter must not be calibrated / configured after mounting unless the area is known to be non-hazardous.

The product has been approved for the below mentioned ambient temperature ranges in the following temperature classes:

T4: for ambient temperature: $-40\text{ }^{\circ}\text{C} < T_{\text{amb}} < +85\text{ }^{\circ}\text{C}$

T5: for ambient temperature: $-40\text{ }^{\circ}\text{C} < T_{\text{amb}} < +65\text{ }^{\circ}\text{C}$


T6: for ambient temperature: $-40\text{ }^{\circ}\text{C} < T_{\text{amb}} < +50\text{ }^{\circ}\text{C}$

[18] Essential Health and Safety Requirements

Concerning EHSR this Schedule verifies compliance with the Ex standards only. The manufacturer's Declaration of Conformity declares compliance with other relevant Directives.

On behalf of UL International Demko A/S

Herlev, 2002-05-15


Steen Lumby
Certification Manager

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