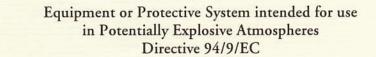
EC-TYPE EXAMINATION CERTIFICATE





- [3] EC-Type Examination Certificate Number: DEMKO 03 ATEX 134461X
- [4] Equipment: Intelligent Temperature Transmitter, IPAQ-LX
- [5] Manufacturer: Inor Process AB

[1]

[2]

- [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:

On behalf of UL International Demko A/S

Herley, 2003-04-28

Karina Christiansen Certification Manager

UL International Demko A/S

Lyskaer 8, P.O. Box 514 DK-2730 Herley, Denmark

Telephone: +45 44856565 Fax: +45 44856500 Certificate: 03 ATEX 134461X

its Unded

An Affiliate of
Underwriters
Laboratories Inc.

[13]

[14]

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

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[15] <u>Description of Equipment or protective system</u>

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:

U_m : 30 V

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.

The input to IPAQ-LX (from the certified barrier) is deemed the Receiver.

Transmitter input (terminal 1-4): Transmitter output (terminal 5 and 6):

 U_{o} 30 V U_{i} 30 V 27 mA 100 mA I_i Po 0.9 W Pi 900 mW 50 mH Li 0 mH Co 52 nF Ci 1 nF

Installation instructions

See drawing 88DRW00022 Rev1 and refer to "User Instructions".

For ambient temperatures below -10 °C and above +60 °C use field wiring suitable for both minimum and maximum ambient temperature.

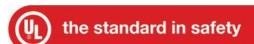
Mounting instructions

Refer to "User Instructions".

[16] Report No.

Project Report No.: 134461-01, 134461-02, 134461-03 and 134461-04

The scheduled drawings are listed in the document S-9083-E dated 2009-03-23 Rev E entitled "List of scheduled and related drawings".



Underwriters Laboratories [13]

[14]

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

Report: 134461-04/08CA61242

[17] Special conditions for safe use:

- The equipment must be electrically connected via an certified isolating interface/ zener barrier and shall placed outside the hazardous area.
- The transmitter is calibrated and configured with a PC. A special connector used for connecting the PC to the transmitter.
 When calibrate/ configure 'online' with the input connected to hazardous area the ATEX certified version of IPRO-X cable must be used.
- "Isolation input/output/PC" of the Type IPAQ-LX mentioned in the data sheet, indicates signal isolation only. It shall not be
 interpreted as an IS galvanic isolation like an isolating barrier. Therefore ordinary care in selecting barrier and grounding should
 be considered.

[18] <u>Essential Health and Safety Requirements</u>

Concerning ESR this Schedule verifies compliance with the ATEX directive only. The manufacturer's Declaration of Conformity declares compliance with other relevant Directives.

Additional information

This device has been additionally evaluated to EN 60079-0:2006 and EN 60079-11:2007 and now marked with the symbol Ex instead of EEx

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.

Certification Manager

Jan-Erik Storgaard

Notified Body

Date of issue: 2009-11-23 Revised: 2009-12-02

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