[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 134845X**

[4] Equipment or Protective System**: Universal 2-channel Programmable 2-wire Transmitter, IPAQ-22LX and Universal 1-channel Programmable 2-wire Transmitter, IPAQ-21LX**

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

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

[7] This equipment or protective system and any acceptable variation thereto are 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. **134845**

[9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN 60079-0:2006 incl. Corr. No. 1
EN 60079-11:2007
EN 60079-26:2007
EN 61241-0:2006
EN 61241-11:2006

[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 [Ex ia] IIC

II (1) D [Ex iaD]

Certification Manager
Jan-Erik Storgaard

Notified Body

Date of issue: 2003-06-24
Re-issued: 2010-01-11

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Schedule
EC-TYPE EXAMINATION CERTIFICATE No.
DEMKO 03 ATEX 134845X
Report: 134845-03/08CA61242

[15] Description of Equipment or protective system

IPAQ-22LX is a 2-channel (IPAQ-21LX is a 1-channel) isolated current loop transmitter intended for use in process industry. The input signal is either of resistance, current 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. It will be placed in non-hazardous area and the input is connected to hazardous area.

Temperature range:

Ambient temperature range	Temperature class
-20 °C to +60 °C	The transmitter is to be placed outside hazardous area.

Type variants comprised by the certificate:
IPAQ-21LX 1-channel; Fixed connection; Ordering code 70IP21LX01
IPAQ-21LX 1-channel; Plug-in connection; Ordering code 70IP21LX02
IPAQ-22LX 2-channel; Fixed connection; Ordering code 70IP22LX01
IPAQ-22LX 2-channel; Plug-in connection; Ordering code 70IP22LX02

Electrical data
Intrinsically safe specifications:

The equipment may be electrically connected (Ch1 Terminal 15-16 and Ch2 Terminal 25-26) via a non-Ex power supply.

U_m : 250 V

Terminal 11-12-13-14 (Ch1) and Terminal 21-22-23-24 (Ch2) (Intrinsically safe sensor terminals)

U_o : 15 V
I_o : 13 mA
L_o : 100 mH
C_o : 550 nF

Installation instructions
For ambient temperatures below –10 °C use field wiring suitable for minimum ambient temperature.

Mounting instructions
Refer to “User Instructions”.

Routine tests
Routine test according to EN 60079-11 cl. 11.2 at 1500 V between input and output circuits is required.

[16] Report No.
Project Report No.: 134845-01, 134845-02 and 134845-03/08CA61242 (Hazardous Location Testing)

Documents:
The Schedule documents are listed in the document S-9109-E, dated 2009-12-17, entitled “List of scheduled and related drawings”.

[17] Special conditions for safe use:

- The equipment must be installed in non-hazardous areas only.
- When calibrating/ configuring ‘online’ make sure the input wiring is not connected to hazardous area and always use the ATEX certified version of IPRO-X configuration cable, DEMKO 03 ATEX 132605X.
- When connecting to a circuit using up to 1 % of Co or Lo, then the C or L is limited to the Co and Lo listed above. If either the C or L is above 1 % of Co or Lo, then C and L are each limited to 50 % of the Co and Lo listed above.

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Schedule
EC-TYPE EXAMINATION CERTIFICATE No.
DEMKO 03 ATEX 134845X
Report: 134845-03/08CA61242

[18] Essential Health and Safety Requirements

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

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

Date of issue: 2010-01-11

Notified Body

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