

[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 07 ATEX 142834X

[4] Equipment or Protective System: **Loop Powered Indicator Type LED-W11X**

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

[6] Address: **Slipstengatan 6, 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. 142834

[9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with:  
**EN 60079-0:2006                      EN 60079-11:2007                      EN 60079-26:2004**

[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 2/1 G    Ex ia IIC T4-T6**

On behalf of UL International Demko A/S

Jan-Erik Storgaard  
Certification Manager

Herlev, 2007-12-17  
Revision date: 2008-04-10

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**Schedule**  
**EC-TYPE EXAMINATION CERTIFICATE No.**  
**DEMKO 07 ATEX 142834X**  
**Report: 09CA33119**

[15]

Description of Equipment or protective system

LED-W11X is a loop-powered indicator for the process industry. The indicator gets its power from the industry standard process signal 4-20 mA. It can be connected between an intrinsic safe power supply and a 4-20 mA transmitter or can also be connected to a direct 4-20 mA intrinsic safe output. The indicator is made for mounting on a wall or, with the help of an accessory, it can be mounted on a pipe or a DIN-rail. The indicator is calibrated and configured with push-buttons, located inside the enclosure. An intrinsic safe transmitter can be mounted inside or outside the housing if suitable marked.

Nomenclature for Loop-Powered Indicator: *LED-W11X*

The relation between ambient temperature and the assigned temperature class is as follows:

**Ambient temperature range**  
-25 °C to +60 °C

**Temperature class**  
T4, T5 and T6

Electrical data

U<sub>i</sub> : 30 V DC  
I<sub>i</sub> : 100 mA  
P<sub>i</sub> : 0.9 W  
C<sub>i</sub> : 1 nF  
L<sub>i</sub> : 10 µH

Installation instructions

For ambient temperatures below -10 °C use field wiring suitable for the minimum ambient temperature.

Routine tests

None.

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Report No.

Project Report No.: 142834-01 (Hazardous Location Testing)  
142834-02 (Hazardous Location Testing)  
09CA33119 (Hazardous Location Testing)

Documents:

**Description:**

List of drawings, LED-W11X

**Drawing No.:**

S-9501

**Rev. Level:**

B

**Date:**

2008-03-07

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**Schedule**  
**EC-TYPE EXAMINATION CERTIFICATE No.**  
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**Report: 09CA33119**

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Special conditions for safe use:

- The equipment must be electrically connected via a certified intrinsic safe power supply according to the suitable parameters described in "Electrical Data", which is mounted outside the hazardous area.
- The equipment is designed to be installed in Zone 1 or Zone 2 and may be connected to equipment placed in zone 0.

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Essential Health and Safety Requirements

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

Additional information

The LED-W11X has in addition passed the tests for Ingress Protection to IP 20, by visual inspection, in accordance with EN60529: 1991/A1 2000.

These devices have been additionally evaluated to EN 60079-26:2007.

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:** 2009-08-25

Revised: 2009-09-25

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