[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 133262**

[4] Equipment or Protective System: **Inductive sensor Type Indupec-Namur**

[5] Manufacturer: **ELMETEC**

[6] Address: **Nordlandsvej 64-66 8240 Risskov, Denmark**

[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. 133262

[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** incl.

[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 2G EEx ib IIC T5/T6

On behalf of UL International Demko A/S

Herlev, 2003-09-22

Karina Christiansen
Certification Manager

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[13] # Schedule

[14] ## EC-TYPE EXAMINATION CERTIFICATE No. DEMKO 03 ATEX 133262

[15] Description of Equipment or protective system

NAMUR-Inductive Proximity Sensor. Mounting directly in oilport Detecting end position of piston.

Temperature range

Ambient temperature range	Temperature class
-25 °C to +70 °C	T6
-25 °C to +80 °C	T5

The equipment must be electrically connected via an certified isolating interface/zener barrier having double or reinforced insulation and shall placed outside the hazardous area.

Electrical data

The equipment must be electrically connected via an certified isolating interface/zener barrier having double or reinforced insulation and shall placed outside the hazardous area.

Intrinsically safe specifications:

U_i: 12.1 V
I_i: 13 mA
P_i: 0.1 W
L_i: 90 µH
C_i: 180 nF

[16] Report No.

Project Report No.: 133262-02

Drawings:

Number	Date	Description
000089	020821	Assembling drawing Namur sensor
000090	020821	Assembling drawing coil
IA12ESF02UC1538	030120	Diagram
EI121	021023	PCB documentation
000211	080903	EEx-Namur lable
	Marts2003	Installation guide
	030227	Electrical part list
	020819	Component specifications

[17] Special conditions for safe use:

None

Schedule

EC-TYPE EXAMINATION CERTIFICATE No. DEMKO 03 ATEX 133262

[18] 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.

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.

On behalf of UL International Demko A/S

Herlev, 2003-09-22

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Certification Manager

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