

(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: **LOM 05ATEX2061**

(4) Equipment or Protection System Rotary switch level controller
Type IRN-700-EX

(5) Applicant: CONTROL INSTRUMENTS MESURA S.L.

(6) Address Guifré, 665 1°
08912 BADALONA (BARCELONA)
SPAIN

(7) This equipment or protective system and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

(8) Laboratorio Oficial J.M. Madariaga (LOM), notified body number 0163 in accordance with Article 9 of the Directive 94/9/EC of the European Parliament 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 the 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 nr. **LOM 04.224 MP**

(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
— Standards **EN 50014:1997 + A1:1999 + A2:1999**
EN 50281-1-1:1998 + A1:2002

(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 and construction of this specified equipment or protective system in accordance with the Directive 94/9/EC. Further requirements of the Directive applies to the manufacture and supply of this equipment or protective system. These are not covered by this certificate.

(12) The marking of the equipment or protective system shall include the following:

II 2/1 D IP65 T85 °C Ta-20 /+ 60 °C

Madrid, 13rd May 2005

OFICIAL

LABORATORIO OFICIAL J.M. MADARIAGA
Carlos Fernández Ramón
DIRECTOR OF THE LABORATORY

Angel Vega Remesal
Head of ATEX area

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LABORATORIO OFICIAL J. M. MADARIAGA

(A1) SCHEDULE

(A2) EC-Type Examination Certificate: **LOM 05ATEX2061**

(A3) Description of equipment or protective system

Rotary switch level controller to be used in solids that is based on a head box containing electrical circuits and a motor, and a rotary spade sensor. The head box is preview to install outside tanks or silos having a category 2D; sensor is preview to be installed inside tanks or silos having a category 1D because it is a simple mechanical device.

These devices have a power rated voltage of 24 Vdc, and 24 to 230 Vac.

(A4) Test report nr. **LOM 04.224 MP**

(A5) Special conditions for safe use

None

(A6) Individual tests

None

(A7) Essential Health and Safety Requirements

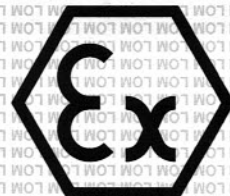
Explosion safe requirements are covered by application of the standards indicated in page 1/2 of this certificate.

(A8) Descriptive documents:

	<u>Rev.</u>	<u>Date</u>
Description nr. DT0106	0	2005-05-04
- Part list nr. DT0107 (2 sheets)	01	2005-05-04
- Drawings nr.: DT0095	0	2005-05-04
PE0185R0	0	2005-05-04
PM0382R0	0	2005-05-04
PM0368R0	0	2005-05-04
PM0370R0 (2 sheets)	0	2005-05-04
PM0380R0	0	2005-05-04



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(1) **EC-TYPE EXAMINATION CERTIFICATE SUPPLEMENT**

(2) Equipment or protective system intended for use in potentially explosive atmospheres
Directive 94/9/EC

(3) Supplement nr. 1 to EC-Type Examination Certificate number **LOM 05ATEX2061**

(4) Equipment or Protection System Rotary switch level controller
Type IRN-700-EX... / NIR-EX...

(5) Applicant **KOBOLD MESURA, S.L.U.**

(6) Address **Guifré, 665
08918 BADALONA (BARCELONA)
SPAIN**

(7) Report nr. **LOM 07.059 NP**

(8) Variations included in this certificate

- Change of the manufacturer name, before CONTROL INSTRUMENTS MESURA S.L.
- Alternative reference of type as NIR-EX...
- Update of applied standards to: EN 61241-0:2006 and EN 61241-1:2004.

Type codification:

IRN700-EX

NIR-EX

Material

2= stainless steel

Neck pipe length

0 = standar

2 = D=200 mm, only paddle Y

Axis

0= standar

4 = special up to 500 mm

Paddle

N= standar

Y = Y shape

X = X shape

Process connection

G6= G 1", G7= G 1" 1/4, G8= G1" 1/2

F1 = flange 110 mm, F2 = flange 200 mm

S6 = sleeve 1"

Power supply

Option



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(3) Supplement nr. 1 to EC-Type Examination Certificate number **LOM 05ATEX2061**

(9) **Marking variations**



II 2/1

Ex tD A21 IP65 T85 °C Ta: -20°C / + 60 °C

(10) **Descriptive documents**

- Drawings nr.:	DT0095R2	Rev.	Date
	DT0136R2	2	2007-07-17



Madrid, 10th September, 2007

Carlos Fernández Ramón
CARLOS FERNÁNDEZ RAMÓN
DIRECTOR OF THE LABORATORY

Angel Vega Remesal
ANGEL VEGA REMESAL
Head of ATEX area

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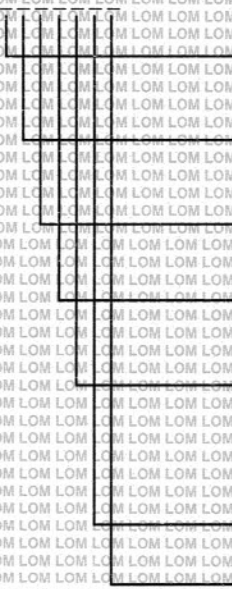
(1) EC-TYPE EXAMINATION CERTIFICATE SUPPLEMENT

- (2)** Equipment or protective system intended for use in potentially explosive atmospheres
Directive 94/9/EC
- (3)** Supplement nr. **2** to EC-Type Examination Certificate number **LOM 05ATEX2061**
- (4)** Component **Rotary switch level controller**
Type **IRN700-E... / NIR-E...**
- (5)** Applicant **KOBOLD MESURA, S.L.U.**
- (6)** Address **Guifré, 665**
08918 BADALONA (BARCELONA)
ESPAÑA
- (7)** Test report nr. **LOM 09.190 MP**
- (8)** Variations included in this certificate

- To include two new enclosures made in aluminium and stainless steel
- To include a new variant with steel cable for applications such as maximum level of long lengths
- New internal electronic circuits design
- To include a new electric motor for the movement of vanes

Type codification:

IRN700-E
NIR-E



Version

81 = Standard 82 = High temperature 83 = Reinforced

Sensor extension

0 = without 2 = 200mm L = Special

Axis extension

0 = without 4 = Special

Vane

N = Standard V = Y shape X = X shape

Process connection

G6 = G 1", G7 = G 1 1/4", G8 = G 1 1/2"
F1 = flange 110 mm, F2 = flange 200 mm
S6 = welding sleeve

Power supply

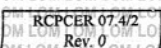
Option



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LABORATORIO OFICIAL J. M. MADARIAGA

(3) Supplement nr. 2 to EC-Type Examination Certificate number **LOM 05ATEX2061**

(9) Changes in marking

Only those that affect the type designation

(10) Descriptive documents

	<u>Rev.</u>	<u>Date</u>
- Description nr.:		
DT0381		2009-05-25
DT0384R1	1	2009-07-23
- Schemas nr.:		
PE0216 (3 hojas)	0	2009-02-23
PE0217	0	2009-02-23
- Drawings nr.:		
DT0383R0	0	2009-06-02
PM0654R0	0	2009-03-19
PM0655R0	0	2009-03-23
PM0656R0	0	2009-03-23
PM0657R0	0	2009-03-24
PM0695R0	0	2009-06-02
PM0696R0	0	2009-06-02
PM0697R0	0	2009-06-02

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Madrid, 2009-07-29

Carlos Fernández Ramón
DIRECTOR OF THE LABORATORY

Angel Vega Remesal
Head of ATEX area



(1) EC-TYPE EXAMINATION CERTIFICATE SUPPLEMENT

(2) Equipment or protective system intended for use in potentially explosive atmospheres
Directive 94/9/EC

(3) Supplement nr. **3** to EC-Type Examination Certificate number **LOM 05ATEX2061**

(4) Equipment or Protection System Rotary switch level controller
Type IRN700-E... / NIR-E... / NIR-E9...

(5) Manufacturer KOBOLD MESURA, S.L.U.

(6) Address Guifré, 665
08918 BADALONA(BARCELONA)
ESPAÑA


(7) Test report nr.: LOM 11.555 LP

(8) Variations included in this certificate

- Update to the standards EN 60079-0:2009 and EN 60079-31:2009
- To include a new variant named NIR-E9 having a new enclosure made in aluminum, mechanical changes and new design in electronic circuit.

Type codification is the same as variant NIR-E

(9) Changes in marking


 II 2/1D Ex tb IIIC T85 °C Db/Da

(10) Descriptive documents

	Rev.	Date
- Description nr.: DT0460R1	-	2011-01-13
- Schematics nr.: PE0216 (sheet 1/4)	0	2011-10-27
- Drawings nr.: PM0893	0	2011-11-10

Getafe, 2012-06-19


Carlos Fernández Ramón
DIRECTOR OF THE LABORATORY


Angel Vega Remesal
Head of ATEX area

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