



(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 06ATEX2054 X

(4) Equipment or Protection System Level detectors
Types MIL... EX y RFS...EX

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

(6) Address Guifré, 665 1º
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 04.221 JP

(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

— Standards EN 60079-0:2004 EN 50020:2002
prEN 61241-0:2005 EN 61241-1:2004

(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 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:

Ex II 2/1 D Ex tD A21 IP65 T85 °C Ta:-20/+ 60 °C

Ex II 1 GD Ex ia IIC T6 / Ex iaD 20 T85 Ta:-20/+ 60 °C

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Madrid, 16th June, 2006

[Signature]

Carlos Fernández Ramón
DIRECTOR OF THE LABORATORY



J.M. MADARIAGA

[Signature]
Angel Vega Remesal
Head of ATEX area

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LABORATORIO OFICIAL J. M. MADARIAGA

(A1) SCHEDULE

(A2) EC-Type Examination Certificate: : **LOM 06ATEX2054 X**

(A3) Description of equipment or protective system

Series of float switch magnetic level controllers which are mainly foreseen to be used in liquid tanks. The series is composed of the following types:

MIL.100.EX y MIL.200.EX	Float device in tube as guide and "reed" switch activated by magnet
MIL.300.EX	float device of bascule type and micro-switch
RFS.12.EX	float device of bascule type and "reed" switch

When they are used in explosive gas ambient and/or combustible dust thus must be connected to a intrinsically safe circuit, and having the marking:



II 1 GD Ex ia IIC T6 / Ex iaD 20 T85 (simultaneous or alternative)

Alternatively, then can be used as category 2 apparatus when connected to conventional circuits. In this case the head of the apparatus is foreseen to be installed on the outside of tanks or silos; this head is a category 2 apparatus. The sensor that is foreseen to be installed inside tanks or silos have got a category 1; this sensor is a simple mechanical device. The marking is:



II 2/1 D Ex tD A21 IP65 T85 °C

As category 1 devices, the intrinsically safe specific parameter is $U_i: 40 V$.

As equipment having a protection by enclosure type of protection of category 2D the characteristics are:

Maximum voltage: 250 V Maximum current: 500 mA Maximum power: 4 VA

In all the cases the external ambient temperature is $T_a: -20 °C / +60 °C$

The floats are foreseen for a maximum process temperature up to 130 °C.

(A4) Test report nr: **04.221 JP**

(A5) Special conditions for safe use

The specific marking will determine the ambient type and zone of use.

(A6) Individual tests

None

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LABORATORIO OFICIAL J. M. MADARIAGA

(A1) SCHEDULE

(A2) EC-Type Examination Certificate: **LOM 06ATEX2054 X**

(A7) Essential Health and Safety Requirements

Explosion safe requirements are covered by application of the standards indicated in page 1/3 of this certificate.

(A8) Descriptive documents:

	Rev.	Date
- Description nr.	DT0126	0 2006-05-17
- Component lists nr.:	DT0078	0 2006-03-10
	DT0079	0 2006-03-10
	DT0125	0 2006-03-10
	DT0133	0 2006-03-21
- Drawings n°:	PM0347R0	0 1999-12-10
	PM0383R0	0 2004-11-15
	PM0385R0	0 2004-11-15
	PM0391R0	0 2004-11-15
	PM0425R0	0 2005-10-07
	PM0444R0	0 2006-03-10
	PM0447R0	0 2006-03-21



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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 06ATEX2054 X**

(4) Equipment or Protection System Level detectors
Type MIL...EX and RFS...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.**
- Update of applied standards to: **EN 60079-0:2006, EN 60079-11:2007, EN 61241-0:2006, EN 61241-1:2004 and EN 61241-11:2006**

(9) Marking variations

None

(10) Descriptive documents

Rev.	Date
- Drawings nr.: DT0132R2	2007-07-17

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J.M. MADARIAGA

Madrid, 24th July, 2007

Carlos Fernández Ram6n
DIRECTOR OF THE LABORATORY

Angel Vega Remesal
Head of ATEX area

This supplement must be an inseparable part together with the base certificate **LOM 06ATEX2054 X**
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EC-TYPE EXAMINATION CERTIFICATE SUPPLEMENT

- (1) Equipment or protective system intended for use in potentially explosive atmospheres
Directive 94/9/EC
- (2) Supplement nr. 2 to EC-Type Examination Certificate **LOM 06ATEX2054 X**
- (3) Equipment or protective system
Level detectors
Types MIL... EX, RFS...EX y M...E
- (4) Manufacturer
KOBOLD MESURA, S.L.U.
- (5) Address
**Guifré, 665
08918 BADALONA(BARCELONA)
SPAIN**
- (6) Test report nr.: **LOM 12.256 KP**

- (7) Variations included in this certificate
 - Update to the standards EN 60079-0:2009, EN 60079-11:2007 and EN 60079-31:2009
 - To Include two new series named "M..E" and "MS..E" with intrinsically safe type of protection, with straight or angled tube respectively. May include junction box or direct cable connection
 - To include new connection boxes and connectors for the variants MIL.100.EX, MIL.200.EX and RFS.12.EX
 - Process temperature is not limited

- (8) Changes in marking
All variants used in intrinsically safe circuits
Variant MIL.300.EX used as protection by enclosure type of protection



II 1GD Ex ia IIC T6 Ga
Ex ia IIIC T85 °C Da
-20 °C ≤ Ta ≤ +60 °C



II 2D Ex t IIIC T85 °C Db
-20 °C ≤ Ta ≤ +60 °C

- (9) Changes in the special conditions for a safe use
It is added:
- The temperature class or surface temperature refers only to equipment operating at room temperature. In class facility shall be determined on the basis of actual temperature of the process.

- (10) Descriptive documents

Rev.	Date
- Descriptions nr.:	DT0494
	DT0495
- Drawings nr.:	DT0496

Getafe, 2012-10-22

Carlos Fernández Ramón
DIRECTOR OF THE LABORATORY



Angel Vega Remesal
Head of the ATEX

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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. **3** to EC-Type Examination Certificate number **LOM 06ATEX2054 X**

- (4) Equipment or protection system Level detectors
Types MIL... EX, RFS...EX, M...E0 y MM...E

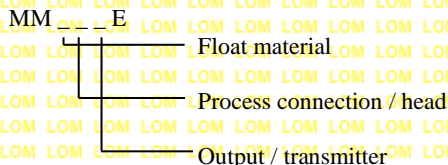
- (5) Manufacturer Kobold Mesura S.L.U.

- (6) Address Avda. Conflent 68, nave 15
08915 Badalona (Barcelona)
SPAIN

- (7) Test report nr.: **LOM 14.120 CP**

(8) Variations included in this certificate

- 1. To include a new series called MM...E



This new series is manufactured with intrinsically safe type of protection. It is based on a chain resistances and contact type "reed" driven by the magnetic field of the float, with potentiometric measurement.

The output signal can be direct, or using the loop signal converters for 4-20 mA, HART or PROFIBUS / FIELDBUS, intrinsically safe using certified transmitter modules.

Used transmitters

Type	Certificate	Manufacturer
5333D	KEMA 03ATEX1535	PR electronics A/S
5335D, 5337D	KEMA 03ATEX1537	
5350B	KEMA 02ATEX1318	

Also it cans include a display type CombiView DFON 5XX from Baumer A/S with certificate TUV.13ATEX113124 X.

The input parameters of the intrinsically safe type of protection will be the same as those indicated in the transmitter modules. For the version with direct connection the input parameter is $P_i: 1.2 W$

- 2. It is restricted to the use of group II for gases and marking is updated for all the variants MIL... EX, RFS...EX, M...E0 and MM...E.
- 3. Assessment update to the standards EN 60079-0:2012 and EN 60079-11:2012

(9) Changes in marking



II 1GD Ex ia IIC T6 Ga
 $-20\text{ °C} \leq T_a \leq +60\text{ °C}$

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LABORATORIO OFICIAL J. M. MADARIAGA

(3) Supplement nr. **3** to EC-Type Examination Certificate number **LOM 06ATEX2054 X**

(10) Changes in the special conditions for a safe use

- Attention should be paid to electrostatic risk of head and parts of the sensor / float made of plastic materials.

- The use in zone 0 of heads made of aluminium should be restricted to locations where the risk of ignition due to mechanical impact is not likely.

(11) Descriptive documents

	<u>Rev.</u>	<u>Date</u>	
- Technical description nº:	DT0602	2014-05	
- Drawings nr.:	DT0596	2013-12	
	DT0598	2014-03	
	PE0234	0	2014-02-11
	DT0615	-	2014-04-11

Getafe, 2014-06-23

Carlos Fernández Ramón
Responsible of the Certification Committee