



**Operating instructions
for
Capacitive level transmitter**

**Model NMC
2 Wire (4 to 20mA)**

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Manufactured by:

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Edition: june 2017

2. Note

Please read these operating instructions before unpacking and putting the unit into operation. Follow the instructions precisely as described herein.

The devices are only to be used, maintained and serviced by persons familiar with these operating instructions and in accordance with local regulations applying to health & safety and prevention of accidents.

3. Instruments inspection

Instruments are inspected before shipping and sent out in perfect condition.

Scope of delivery

The standard delivery includes:

- Capacitive Level Transmitter NMC
- Cable gland M20
- Operating Instructions

4. Description

The NMC transmitter is a two wire capacitance level transmitter for measuring continuous level in tanks containing liquids.

5. Application

The probe of the NMC and the wall of the tank, forms an electric capacitor. The dielectric of this capacitor when the tanks is empty, is the air.

When the liquid reaches the probe, the dielectric constant formed by the unit and tank, changes.

An electronic circuit sited in the connecting module of NMC, converts this capacity change in a variable current and proportional to the height of the liquid.

Due to each application is different, given that the kind and the measures of the tank and the products that it contains change, every unit has to be adjusted to be adapted to each tank and product.

Using the menus of the NMC , this operation is very easy.

The circuit, controled by microprocessor, stores all data and does the calculation. A display LCD guides us in the calibration process.

The output current signal is 4 to 20 mA. These values can be sited where we want in the probe.

6. Current simulation

Using this option the NMC generates in the supply loop, a 4 to 20 mA current, in steps of 1 mA. This function is very useful to make tests with independence of the level of the tank.

7. Installation

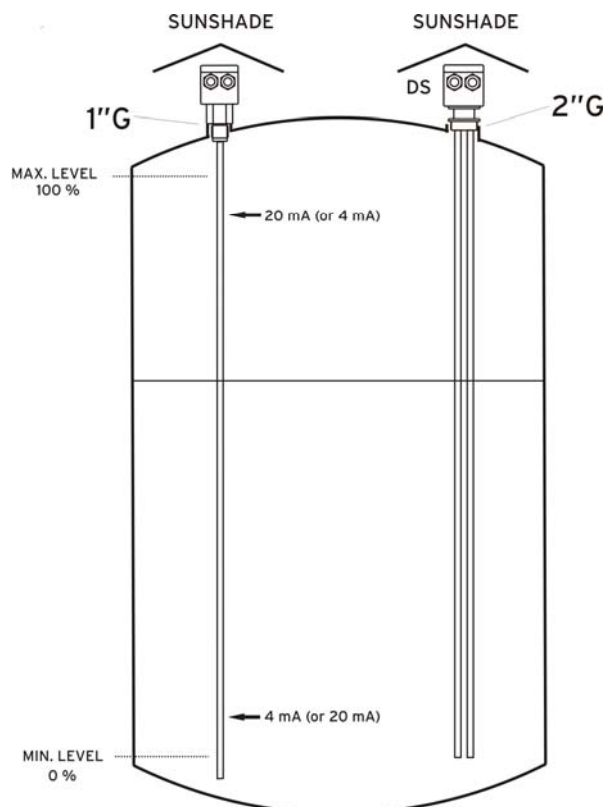
The NMC is installed using a G1" (G2" in DS version).

The probe must be installed avoiding a good contact between the probe and the tank's wall.

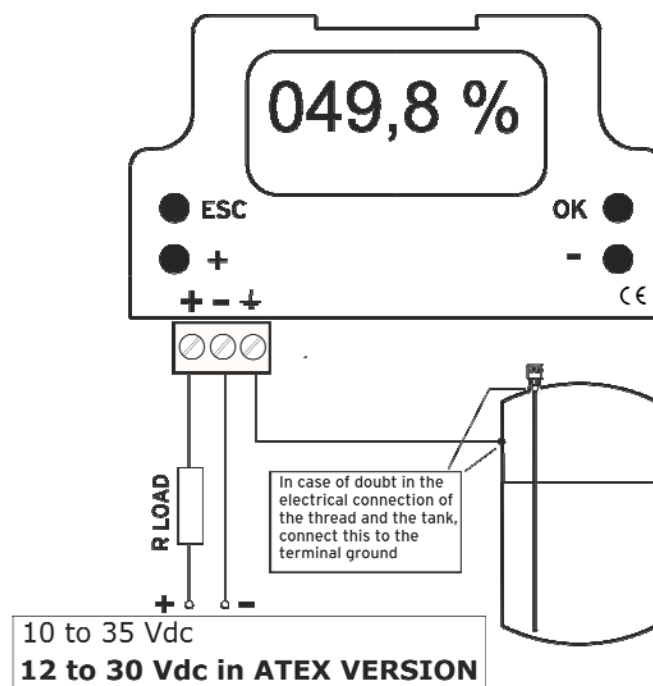
Electronic of the NMC unit should be protected with shelter against development of too high temperature by direct sunshine.

Be ensured that the connection to the tank has been done properly. The NMC 's thread should not be forced.

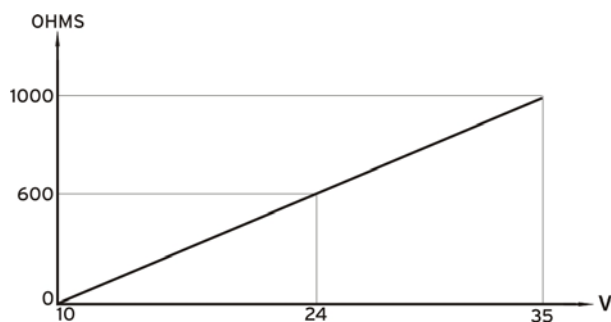
The electrical connection between the thread and the tank has to be good.



8. Electrical connection



The maximum resistance of the line in serial depends on the power supply. These values have to be bear in mind for the good run of the NMC.



9. Programming

9.1 Calibrating probe

Calib.Probe → OK Output → + Language → - Back → ESC	1. Pressing any key, you enter in the main menú. Press (OK) to enter in calibration probe.
CALIBRATION ¿SURE? Yes→OK No→ESC	2. To avoid mistakes, asks again if you are sure that you want to calibrate the unit. Press (OK) another time to enter.
CALIBRATION Low Level →OK High Level → +	3. If the level in the tank is low, we will choose the (OK) option to adjust the unit with the lowest level
LOW LEVEL ADJUST Enter the actual level in probe. +And-: 010.0 % → OK	4. If, for example, when you adjust the low level, the level of the tank is the 10 % of the capacitance, we will indicate it in the display using the (+) and (-) keys. Confirm with (OK).
Calibrating PROBE For low levelWAIT....	5. In this moment the microprocessor makes the operations to choose the best measurement range. This operations takes some seconds.
***PROBE CALIBRATED**	6. When this operation is finished, the display shows the message "PROBE CALIBRATED".
Calib.Probe → OK Output → + Language → - Back → ESC	7. Automatically the display shows the main menu. Now need calibrate the High Level, then pressing (OK) another time to enter in the calibration probe menu.

CALIBRATION ¿SURE? Yes → OK No →ESC	8. To avoid mistakes, asks again if you are sure that you want to calibrate the unit. Press (OK) another time to enter.
---	---

CALIBRATION Low Level →OK High Level → +	9. Pressing (+) we enter in High level calibration.
--	---

HIGH LEVEL ADJUST Enter the actual level In probe + and - :080.0 % → OK	10. If when you adjust the high level, the liquid in the tank is 80 % of the capacitance, we will indicate it in the display using the (+) and (-) keys. Confirm with (OK).
--	---

Calibrating PROBE For low level WAIT	11. The microprocessor makes the operations to calibrate the maximum level of the unit. This operation takes some seconds.
---	--

*** PROBE CALIBRATED ***	12. The display shows this message to indicate NMC has finished the calibration internal process. When the liquid level will be in the minimum point, it will indicate 000.0 % and when the liquid level will be in the maximum, 100.0 %.
-----------------------------	---

Calib.Probe → OK Output → + Language → - Back → ESC	13. Automatically, the display shows the main menu. Pressing ESC the unit returns to read state. Pressing (+) we can enter in output adjustment menu and simulation mode.
--	---

9.2 Output Adjustment

Calib.Probe → OK Output → + Language → - Back → ESC	1. Pressing any key, you enter in the main menu. Press (+) to enter in Output.
--	--

OUTPUT Output SIM → - Output Adj → + Back → ESC	2. Pressing (+), we enter in Output adjustment menu.
--	--

OUTPUT ADJUST
¿Where do you want the 4
mA output?
+ and - : 005.0 % → OK

3. This asks, where do you want the NMC gives us 4 mA. If you want it in 5 % of the probe. Using (+) and (-) we indicate this value in the display. Confirm with (OK)

OUTPUT ADJUST
¿Where do you want the 20
mA output?
+ and - : 095.0 % → OK

4. We do the same for the 20 mA. In this case, if we want this current in the 95 % of the probe, we will indicate this value using (+) and (-). Confirm with (OK)

MEASURE FILTER
Enter filter's level
0 to 5
+ and - : 1 → OK

5. Finished the adjustment, we can incorporate a filter to avoid oscillations caused by quick movements of the liquid's surface. This value between 0 and 5 (maximum filter). Confirm with (OK)

OUTPUT
Output SIM → -
Output Adj → +
Back → ESC

6. Automatically return to output menu. Pressing ESC return to measuring mode.

049.8%
12.04 mA

7. In this point, the NMC is adjusted. The number in % indicates the height that reaches the level in the probe (0 to 100). The value of the current will depends f the adjustment of the points 3 and 4 of this section, and it can be in any point of the probe. It can be in maximum point and in the 20 mA at the minimum.

9.3 Output simulate

Calib.Probe → OK
Output → +
Language → -
Back → ESC

1. Pressing any key, you enter in the main menu. Press (+) to enter in Output.

OUTPUT
Output SIM → -
Output Adj → +
Back → ESC

2. Pressing (-), we enter in simulate output menu.

SIMULATE OUTPUT	
Back	→ ESC
+ and - : 04 mA	→ OK

3. In this screen, using the (+) and (-) keys, the loop current (2 wire) will change in steps of 1mA. With this option, you can do current testes without generator. Pressing (OK) returns to menu show in point 2. Pressing (ESC) returns to read mode.

9.4 Language

Calib.Probe	→ OK
Output	→ +
Language	→ -
Back	→ ESC


1. Pressing any key, you enter in the main menu. Press (-) to enter in Language.

LANGUAGE	
+&- : English	→ OK

2. Pressing (+) or (-) we can choose the language for the display.
Language available: Spanish, English, German, Italian, French, Portuguese and Catalan.
Pressing (OK) return to main menu in language selected.

10. Technical Data

Note: Kobold Mesura makes every attempt to ensure the accuracy of these specifications but reserves the right to change them at any time.

Measuring principle:	Capacitive (for liquids up to 1000 pF)
Probe length:	265...4000 mm (shorter versions on request)
Accuracy:	±2 mm
Medium temp.:	max. 90 °C, NMC-H max.125 °C
Max. pressure:	30 bar at 20 °C, 10 bar at 90 °C
Media DC-value:	$\epsilon_r = \text{min. } 1.5$
Materials:	Housing: Polycarbonate Connection: St.steel 1.4305 (NMC-N,NMC-T,NMC-H) PVDF (NMC-S) Probe: - St.steel with PTFE coating (NMC-N, NMC-T) - PVDF coating (NMC-S) - St.steel probe 1.4305 with internal sensor (st.steel with PTFE coating) (NMC-T)
Mech.Connection:	G1 male (NMC-N,NMC-H,NMC-T) G2 male (NMC-S)
Supply voltage:	10...35 Vdc 12...30 Vdc for ATEX
Electr.connection:	via 1 (2) cable gland M20
Output:	4-20mA, two wire
Protection:	IP 65
ATEX	 Ex II 2/1 GD Ex ia IIC T4 Gb/Ga Ex ia IIIC T85°C Db/Da -20°C ≤ Ta ≤ +60°C

11. Safety Instructions (ATEX)

11.1 Validity

These safety instructions must be applied to the capacitive level transmitters series NMC...E when used in explosive atmospheres.

11.2 General considerations

Working principle of NMC..E is capacitive and these instruments are used to measure and control the level on a liquid of any zone. Including zones with explosion risk.

Level instruments NMC..E have an analogue output 4-20 mA two wires, and are used to measure the level in a tank. They can be used in explosive atmospheres group IIA, category 1/2GD

NMC..E have a housing with the electronic module and a probe that can be rigid (one or two roads) or flexible.

The probe can be installed in explosion risk areas 1/2GD.

The process connection element and the housing must be installed in area 2GD.

When installing these instruments in explosive zones, all general instructions and recommendations regarding installations in explosive zones, as well as the instructions of this safety manual must be followed.

Verify that all data in the label of the instrument fits the installation requirements. EN60079-0, EN60079-11, EN60079-26, EN60079-31 must be followed.

Switch off power supply before open housing or be sure there is no explosion risk.

Verify that housing is closed before switch on the instrument.

It is very important to verify that ground terminal of the instrument is connected to ground of the installation.

Installation in hazardous zones must be done by trained people.

11.3 Protection against ESD (electro static discharges)

Instruments with plastic parts that can produce electro static discharges, have a label for it.

It is important to follow some rules to avoid ESD:

-Avoid frictions.

-Do not clean the instrument with a dry cloth.

-Do not install in locations close to pneumatic flow of materials or close to steam exhaust systems.

11.4 Chemical resistance

Materials in touch with the instrument must be chemically resistant specially when used in hazardous zones category 1/2GD.

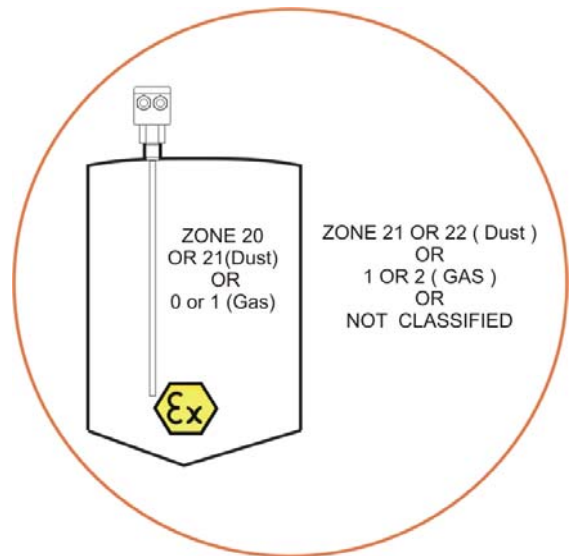
12. Installation in classified zone (ATEX)

In classified zones, NMC EX version, must be installed with the housing in zone 21, 22 dust and 1, 2 for Gas (category 2) or NOT CLASSIFIED.

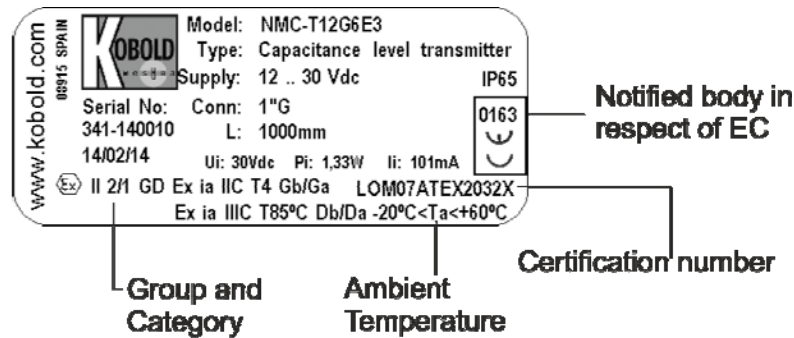
Process connection is mounted in the border wall between areas of category 2 and 1.

Probe can be mounted in ZONE 20,21 or 0,1 (category 1).

Installation must be done by people trained in ATEX environments.



13. Label Description (ATEX)



14. Declaration of conformance ATEX

DT0164

DECLARACIÓN DE CONFORMIDAD EU

EU DECLARATION OF CONFORMITY
EU-KONFORMITÄTSERKLÄRUNG
DÉCLARATION DE CONFORMITÉ
DICHIARAZIONE DI CONFORMITÀ EU

KOBOLD MESURA SLU
Avda. Conflent 68, nave 15 08915 Badalona (España)

Declara, bajo la propia responsabilidad, que el producto

Declares under our sole responsibility, that the product
Erklärt in alleiniger Verantwortung, dass das produkt
Déclare sous sa seule responsabilité, que le produit
Dichiara sotto la propria responsabilità, che il prodotto

NMC...E

A los cuales se refiere esta declaración, son conformes a las siguientes Directivas Europeas:

To which this declaration relates is in conformity with the following European Directives:
Mit folgenden Richtlinien konform ist:
À auxquels se réfère cette déclaration, ils sont conformes aux Directives Européennes suivant :
A ai quali si riferisce questa dichiarazione, sono conformi alle direttive europee seguente:

EMC2014/30/EU LVD2014/35/EU Atex2014/34/EU RoHS2011/65/EU

Normas armonizadas y documentos de la normativa aplicados:

Applied harmonised standards and normative documents:
Angewandte harmonisierte Normen und normative Dokumente:
Normes harmonisées et documents normatifs appliqués
Norme armonizzate e documenti normativi applicati:

EN61010-1 :2011 EN60079-0:2006 (acc. EN60079-0:2013)
EN61000-6-2 :2006 EN60079-26:2007 (acc. EN60079-26:2015)
EN60079-11:2007 (acc. EN60079-11:2013)

Certificado de examen CE de tipo

EC-type examination certificate
EG-baumusterprübescheinigung
Attestation d'examen CE de type
Certificazione per esame di tipo CE

Marcado

Marking
Kennzeichnung
Inscription
Marcatura

LOM07ATEX2032X



II 2/1 GD Ex ia IIC T4 Gb/Ga
Ex ia IIIC T85°C Db/Da
-20°C ≤ Ta ≤ +60°C

Fabricado en: KOBOLD MESURA SLU Avda. Conflent 68, nave 15 08915 BADALONA (Spain)

Made in:
Hergestellt in:
Fabriqué dans:
Fabbricato in:

Organismo notificado: LOM 0163

Notified organism
Zertifizierungsstelle
Organization annoncée
Organismo informato

Número notificación: LOM 05ATEX9070

Number notification
Zertifikatsnummer
Nombre notification
Notifica di numero

Badalona june 2017

Gerente

15. Declaration of conformance

DT0490

DECLARACIÓN DE CONFORMIDAD EU

*EU DECLARATION OF CONFORMITY
EU-KONFORMITÄTSEKLRUNG
DÉCLARATION DE CONFORMITÉ
DICHIARAZIONE DI CONFORMITÀ EU*

KOBOLD MESURA SLU
Avda. Conflent, 68 nave 15 08915 Badalona (España)

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*Declares under our sole responsibility, that the product
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Déclare sous sa seule responsabilité, que le produit
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NMC...

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*To which this declaration relates is in conformity with the following European Directives:
Mit folgenden Richtlinien konform ist:
À auxquels se réfère cette déclaration, ils sont conformes aux Directives Européennes suivant :
A ai quali si riferisce questa dichiarazione, sono conformi alle direttive europee seguente:*

EMC2014/30/EU LVD2014/35/EU RoHS2011/65/EU

Normas armonizadas y documentos de la normativa aplicados:

*Applied harmonised standards and normative documents:
Angewandte harmonisierte Normen und normative Dokumente:
Normes harmonisées et documents normatifs appliqués
Norme armonizzate e documenti normativi applicati:*

EN61010-1 :2011 EN61000-6-2 :2006

Fabricado en: KOBOLD MESURA SLU Avda. Conflent, 68 nave 15 08915 BADALONA (Spain)

*Made in:
Hergestellt in:
Fabriqué dans:
Fabbricato in:*

Badalona June 2017

Gerente



16. ATEX Certified



LABORATORIO OFICIAL J. M. MADARIAGA



(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 07ATEX2032 X

(4) **Equipment or Protection System** Capacitive level measuring device
 Types Microcap...EX... / NMC... E...

(5) **Applicant:** Kobold Mesura S.L.U

(6) **Address** Gríf, 655
 08918 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 07.105 HP

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

Standards	EN 60079-0:2006	EN 60079-11:2007	EN 60079-20:2007
	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 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 1/2 G D Ex ia IIC T4 Ta: -20 °C / +60 °C
 Ex iaD 20 T85 °C IP65

OFICIAL J.M. MADARIAGA
 Madrid, 4th May 2007

Carlos Fernández Ramón
 DIRECTOR OF THE LABORATORY

Angel Vega Remesal
 Head of ATEX area

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 ENSAYOS E INVESTIGACIONES DE MATERIALES Y EQUIPOS PARA ATMÓSFERAS EXPLOSIVAS Y MINERÍA
 (Real Decreto 334/1992 de 3 de Abril - BOE 1992-04-29 -)



Alenza, 1 - 28003-MADRID - ☎ (34) 91 4421366/ 91 3367009 - ☎ Fax.(34) 91 4419933 - ✉ lom@lom.upm.es



LABORATORIO OFICIAL J. M. MADARIAGA

(A1) SCHEDULE

(A2) EC-Type Examination Certificate: LOM 07ATEX2032 X

(A3) Description of equipment or protective system

Capacitive level control device foreseen to be commercialised as two different type references:

Microcap...EX
NMC...E

Type nomenclature:

Microcap... EX
NMC... E

Probe version	N, S, T, H
Probe length (m)	1 to 4
Connection material	2 or 9
Connection	G1 or G2
Power supply	
Option	

This device is a current loop transmitter at 4-20 mA. The head of the device is made as category 2 and probe as category 1

Specific parameters of the type of protection: Ui: 30 V Pi: 1,33 W Ii: 50 mA

(A4) Test report nr. LOM 07.105 IIP

(A5) Special conditions for safe use

It must be taken into account the electrostatic risk of the head enclosure.

(A6) Individual tests

None



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(A1) SCHEDULE

(A2) EC-Type Examination Certificate: LOM 07ATEX2032 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:

Description nr.	Rev.	Date
DT0164		2007-04-29
DT0167		2007-03-19
Component part list:		
DT0161		2007-03-19
DT0162 (2 sheets)		2007-03-20
DT0163		2007-03-19
Drawings nr.:		
Microcap1	4	2007-01-23
Microcap2 (2 sheets)	4	2007-01-23
Microcap3	4	2007-01-25
PE0201R0		2007-03-20
PE0202R0		2007-03-20
PE0203R0		2007-03-20
PE0204R0		2007-03-20
PE0205R0		2007-03-20
PE0206R0		2007-03-20
PE0207R0		2007-03-20
PE0208R0		2007-03-20
PE0209R0		2007-03-20
PM0481R0		2007-03-20
PM0482R0		2007-03-20



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LABORATORIO OFICIAL J. M. MADARIAGA



(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 07ATEX2032 X**

(4) Equipment or Protection System Capacitive level measuring device
 Types Microcap...EX... / NMC... E...

(5) Applicant Kobold Mesura S.L.U.

(6) Address Grifó, 655
 08918 Badalona (BARCELONA)
 SPAIN

(7) Test report nr. LOM 08.426 CP

(8) Variations included in this certificate
 To include a variant with changes in the electronic circuit
 Variations in the specific parameters of the type of protection:

U _i	P _i	I _i
30V	1,33 W	101 mA
20 V	1,33 W	-
14,5 V	-	-

(9) Variations in marking
 Those that correspond to the specific parameters of the type of protection

(10) Variations in the special conditions for a safe use
 None

(11) Descriptive documents

Part list nr.	Rev.	Date
DT0161	1	2008-11-03
DT0162	1	2008-09-24
DT0163	1	2007-03-19
Drawings nr.		
PE0201R1	1	2008-09-24
PE0204R1	1	2008-09-24
PE0207R1	1	2008-09-24
PE0210	5	2008-09-18
PE0211 (2 sheets)	5	2008-09-18
PE0212	5	2008-09-18

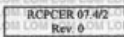
Madrid, 12th December, 2008

Carlos Fernández Ramón
 DIRECTOR OF THE LABORATORY

Angel Vega Remesal
 Head of ATEX area

This supplement must be an inseparable part together with the base certificate LOM 07ATEX2032 X
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 (Real Decreto 334/1992 de 3 de Abril - BOE 1992-04-29)



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LABORATORIO OFICIAL J. M. MADARIAGA



(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 07ATEX2032 X**

(4) **Equipment or Protection System** Capacitive level measuring device
 Type Microcap...EX... / NMC...E...

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

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

(7) **Test report nr.:** LOM 12.166 YP

(8) **Variations included in this certificate**
 - Update to the standards EN 60079-0:2009, EN 60079-31:2009 and EN 60079-26:2007
 - Update of electronic design

Type codification remains unchanged.

Specific parameters of the type of protection are the same as specified in supplement 1 of this certificate

(9) **Changes in marking**

II 2/IGD Ex ia IIC T4 Gb/Ga
 Ex ia IIC T85 °C Db/Da
 -20 °C ≤ Ta ≤ +60°C

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

Without changes

(11) **Descriptive documents**

	Rev.	Date
- Description nr.:	DT0492	2012-04-01
- Schematics nr.:	PE0231 (sheet 1)	2011-11-15
	PE0231 (sheet 2)	2011-11-15
	PE0231 (sheet 3)	2012-03-27
- Drawings nr.:	PE0233R0 (10 sheets)	2012-04-12
	DT0488	2012-04-12

Getafe, 2012-06-22

Carlos Fernández Ramón
 DIRECTOR OF THE LABORATORY

Angel Vega Remesal
 Head of ATEX area

This supplement must be an inseparable part together with the base certificate LOM 07ATEX2032 X

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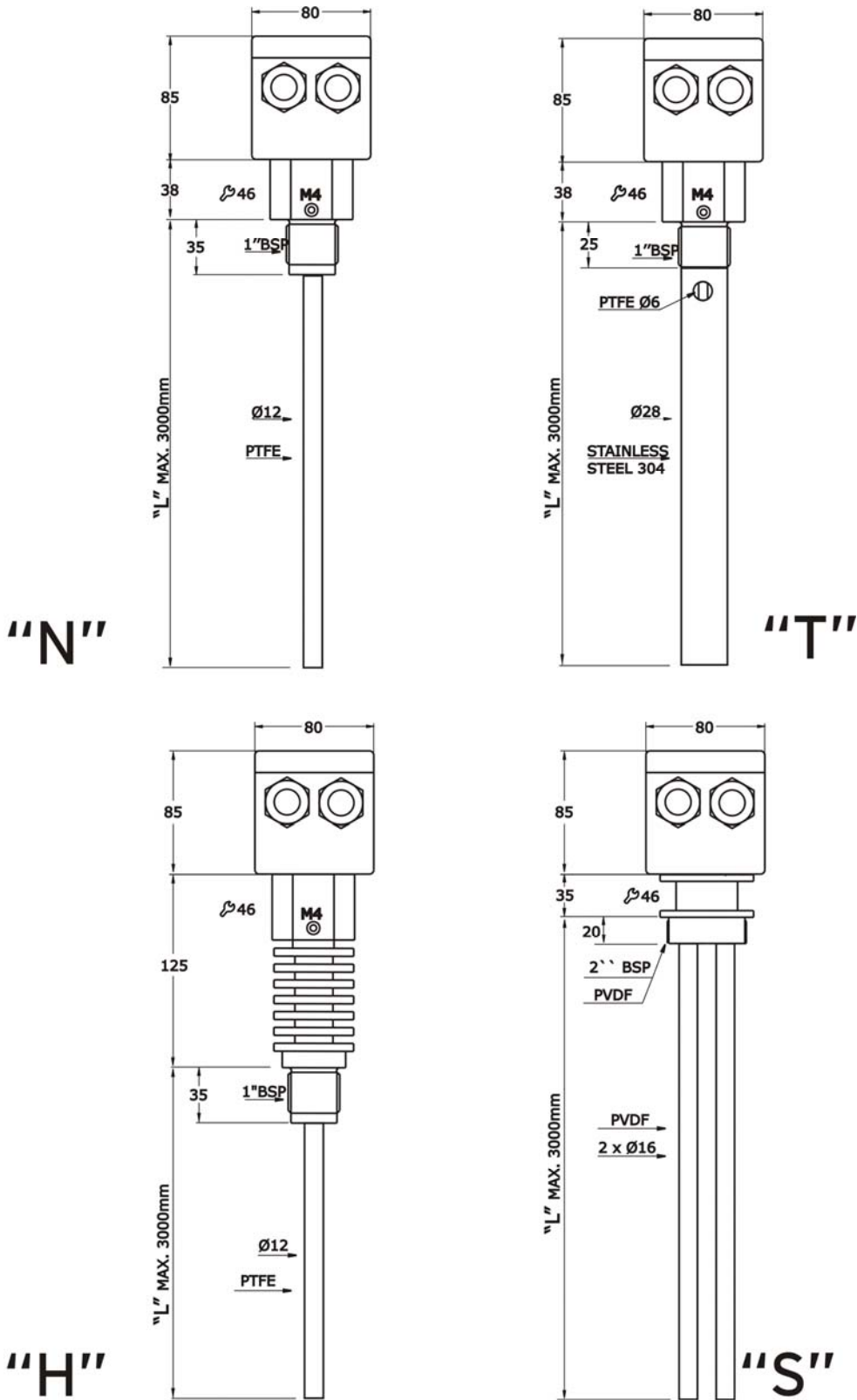
RCPCEr 07 4/2
 Rev. 0

UNIVERSIDAD POLITÉCNICA DE MADRID
 ENSAYOS E INVESTIGACIONES DE MATERIALES Y EQUIPOS PARA ATMÓSFERAS EXPLOSIVAS Y MINERÍA
 (Real Decreto 334/1992 de 3 de Abril - BOE 1992-04-29)



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17. Models



18. Order details

Version	Probe length*	Mechanical connection	ATEX	Supply
NMC-N	...1 = up to 1 meter	2G6 = G1, st. steel	0 = without E= ATEX	3 = 10...35 Vdc
NMC-H	...2 = up to 2 meter			
NMC-T	...3 = up to 3 meter	9G9 = G2, PVDF		
NMC-S4 = up to 4 meter			

* Please specify in writing length.

19. Notes

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Technical data
Subject to change without prior notice

