



### (1) EC-TYPE EXAMINATION CERTIFICATE

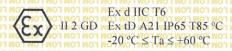
- Equipment or protective system intended for use in potentially explosive atmospheres
- (3) EC-Type Examination Certificate nr LOM 08ATEX2016 X
- (4) Equipment or protection system Temperature sensors

  Types TWL... and TTL...
- (5) Applicant worker worker worker worker worker KOBOLD MESURA, S.L.U.
- (6) Address 655 ORD ROLL OF CONTROL OF CONTR
- This equipment or protective system and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.
- 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 07.165 PP
- (9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

Standards EN 60079-0:2006 EN60079-1:2004
EN 61241- 0:2006 EN61241-1:2004

- (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.
- 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 apply 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:



Madrid, 28th March 2008



Carlos Fernández Ramón
DIRECTOR OF THE LABORATORY

Angel Vega Remesal Head of the ATEX

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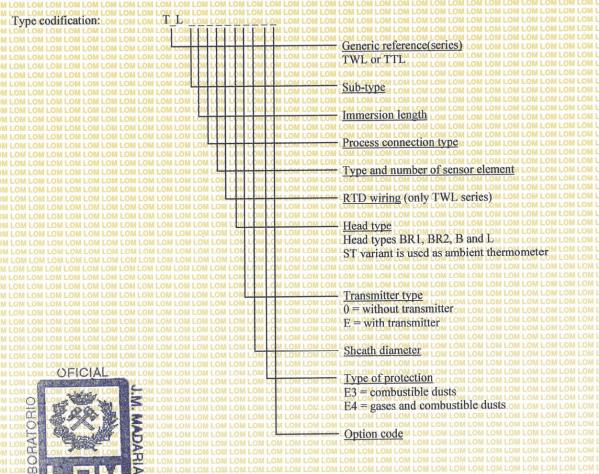
### (A1) SCHEDULE

- (A2) EC-Type Examination Certificate: LOM 08ATEX2016 X
- (A3) Low Description of equipment or protective system

Temperature sensors based on thermocouple (TTL series) o thermoresistor RTD (TWL series) having a head in three formats and a sheath that contains the sensor element. Also is included an ambient thermometer (ST head) that uses a metallic enclosure.

Sensors with their heads are foreseen to be used in combustible dust explosive atmospheres.

The variants having the head type L can be used in gas explosive atmospheres of the group IIC. These variants have a head type XD-AD.. with component certificate FTZÚ 03 ATEX 0074U.



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### (A1) SCHEDULE

(A2) EC-Type Examination Certificate: LOM 08ATEX2016 X

### (A4) Test report nr LOM 07.165 PP

#### (A5) Special conditions for safe use

The marked temperature class or surface temperature only refers to the equipment operating t ambient temperature. It must be determined the real process temperature in the installation. Head temperature must not be greater than 60 °C.

#### (A6) Individual tests

Each flameproof manufactured unit, including threaded flameproof joint sheaths, must be submitted to static pressure test at 20 bar according 15.1.3 of EN 60079-1:2004.

### (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) NOT W Descriptive Documents

Descriptive Documents No			
		Rev.	Date
Technical description nr.:	DT031507 WOT WO	M LOM LOM L	2008-02-25 NOT
- Technical manuals nr:	MOLES COLLEGE	M LOM LOM	2008-02-25
MOT WOT WOT WOT WOT WOT	OT 2226		2008-02-25
	OF 3226 OT WOT WO	M FOW FOW F	0 2006+02+25 NO 1
	OM LOM LOM LOM LOM L	M LOM LOM L	гом гом гом гом го
wo Drawings nr !!! OT WOT WOT WOT	PM0507R01071110	M COM FON F	2007-10-23 NOT
	PM0508R0	0-10-10	2007-10-23
	PM0509R0101110	M LOM LOM L	2007-10-23 NOT
	PM0510R0	M FOW FOW F	2007-10-23
	PM0511R0	M LOM LOM	2007-10-23 NOT
	PM0512R0	M LOM LOM L	2007-10-23
		M FOW FOW I	COM COM COM COM CO
	PM0529R0	M COM CON E	2007-10-23
	PM0530R0	M FOM FOM F	2007-10-23
	PM0531R0	0	2007-10-23
	PM0532R0101 NO	M LOM LOM L	2007-10-23
	PM0533R0	M FOW FOW F	2007-10-23
	PM0534R0	M LOM LOM	2007-10-23
	ON LONCLONICONCION	M LOM LOM L	LOM LOM LOM, LOM, LOMELO
	PM0535R0	M FOW FOW F	2007-10-23
TOW FOW FOW FOW FOW FOW FOW	PM0536R0	M TOM TON T	2007-10-23
	PM0537R0	M LOM LOM L	2007-10-23
	PM0538R0	0-10-1	2007-10-23
ГОМ ГОМ ГОМ ГОМ ГОМ ГОМ ГОМ	PM0539R0 NOT NO	M TOM TOM T	2007-10-23 NOT
	PM0540R0	M FOW FOW F	2007-10-23
	MOT MOT MOT MOT MO	M LOM LOM L	COM COM COM COM CO
	DT034000 NOT NO	М ГОМ ГОМ Г	2008-01-02
	DT034207 NOT NO	M FOW FOW F	2008-01-02
	DT031607 NOT NO	M LOM LOM L	2008-01-02



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## EC-TYPE EXAMINATION CERTIFICATE SUPPLEMENT (1) Equipment or protective system intended for use in potentially explosive atmospheres (2)Directive 94/9/EC **LOM 08ATEX2016 X** Supplement nr. 1 to EC-Type Examination Certificate number (3)Temperature sensors (4) Equipment or protection system Types TWL..., TTL. KOBOLD MESURA, S.L.U. (5)Applicant Guifré, 665 (6)Address 08918 BADALONA(BARCELONA) **SPAIN** LOM 09.496 GP (7) Test report nr.: (8) Variations included in this certificate To update de type codification: Variants with type of protection Ex d General code (type) TWL or TTL Sub-type Type and number of elements Sensor wiring Head type and transmitter Process connection (Sensor) Type of thermowell Process connection (Thermowell) Process connection (size) Nominal pressure (Process connection) OFICIAL Immersion length and neck pipe Option codes

This supplement must be an inseparable part together with the base certificate LOM 08ATEX2016 X

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RCPCER 07.4/2 Rev. 0



