



(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 nr **LOM 08ATEX2016 X**

(4) Equipment or protection system Temperature sensors
Types FWL... and TTL...

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

(6) Address Gríf. 655
08918- Badalona (BARCELONA)
ESPAÑA

(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 07.165 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.

(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 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:

 Ex d IIC T6
II 2 GD Ex tD A21 IP65 T85 °C
-20 °C ≤ Ta ≤ +60 °C

OFICIAL

Madrid, 28th March 2008



J.M. MADARIAGA


Carlos Fernández Ramón
DIRECTOR OF THE LABORATORY


Angel Vega Remesal
Head of the ATEX

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LABORATORIO OFICIAL J. M. MADARIAGA

(A1) SCHEDULE

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

(A3) Description of equipment or protective system

Temperature sensors based on thermocouple (TTL series) or 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.

Sensors can be connected either directly or indirectly by means transmitters placed into the head. They can be used any type of electronic transmitter but the internal free volume must be greater than 40% of any cross section y the its internal dissipated power is limited to 15 W

Type codification:

T L



Generic reference(series)

TWL or TTL

Sub-type

Immersion length

Process connection type

Type and number of sensor element

RTD wiring (only TWL series)

Head type

Head types BR1, BR2, B and L

ST variant is used as ambient thermometer

Transmitter type

0 = without transmitter

E = with transmitter

Sheath diameter

Type of protection

E3 = combustible dusts

E4 = gases and combustible dusts

Option code



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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 at 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) Descriptive Documents

	Rev.	Date
- Technical description nr.:	DT0315	2008-02-25
- Technical manuals nr.:	CT3225	2008-02-25
	CT3226	2008-02-25
- Drawings nr.:	PM0507R0	0 2007-10-23
	PM0508R0	0 2007-10-23
	PM0509R0	0 2007-10-23
	PM0510R0	0 2007-10-23
	PM0511R0	0 2007-10-23
	PM0512R0	0 2007-10-23
	PM0529R0	0 2007-10-23
	PM0530R0	0 2007-10-23
	PM0531R0	0 2007-10-23
	PM0532R0	0 2007-10-23
	PM0533R0	0 2007-10-23
	PM0534R0	0 2007-10-23
	PM0535R0	0 2007-10-23
	PM0536R0	0 2007-10-23
	PM0537R0	0 2007-10-23
	PM0538R0	0 2007-10-23
	PM0539R0	0 2007-10-23
	PM0540R0	0 2007-10-23
	DT0340	- 2008-01-02
	DT0342	- 2008-01-02
	DT0316	- 2008-01-02

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