



# LABORATORIO OFICIAL J. M. MADARIAGA



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## (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 15ATEX2015 X**

(4) Equipment or protection system Electrical switchgear boxes  
Types CEN \*\*\*

(5) Manufacturer Dayheem Electric Industry Co.

(6) Address 402 Imam Khomeini st.  
Ghassem Abad Rd., Khavaran Rd.  
Tehran  
IRAN

(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 12.174 GP**

(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:  
Standards **EN 60079-0:2012** **EN 60079-1:2007** **EN 60079-31:2009**

(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:



II 2G Ex d IIC T6 Gb  
II 2D Ex t IIC T85 °C Db

Getafe, 2015-04-17

Carlos Fernández Ramón  
Head of Certification Committee

This Certificate is a translation from the original in Spanish. The LOM liability applies only on the Spanish text

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RCPCEER 07.3/2  
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)





# LABORATORIO OFICIAL J. M. MADARIAGA

## (A1) SCHEDULE

(A2) EC-Type Examination Certificate nr: **LOM 15ATEX2015 X**

### (A3) Description of equipment or protective system

The equipment CEN\* are flameproof switchgear boxes made in aluminium alloy.

There are three main variants:

CEN 1\*\* Used as connection box including terminal blocs, it has a threaded cover

CEN 2\*\* Used as switchgear box having an actuator on the cover, it has a spigot cover fixed by crews. This variant can mount and accessories covered by component certificate LOM 15ATEX3011U

CEN 3\*\* Used to contain instruments such as voltmeter and ammeters, it has a threaded cover with a glass window

Type codification CEN

Main variant 1, 2 or 3

Code of number and position of cable entry holes

- Variant
- 0 = always in CEN 1\*\*
  - 1 = Signal lamp SGL 1
  - 2 = Push button PBT 1
  - 3 = Selector switch SLC 1
  - 4 = Emergency push button EMG 1
  - 5 = Ammeter
  - 6 = Voltmeter

### Electrical characteristics

Main variant	Contents	Umax	Imax
CEN 1**	Up to 5 terminal blocks	800 V	76 A
CEN 2**	Contact block	230 V	6 A
CEN 2**	Signal lamp	230 V	15 mA
CEN 3**	Ammeter/voltmeter	500 V	30 A

Ambient temperature:  $-20^{\circ}\text{C} \leq T_a \leq +55^{\circ}\text{C}$

Degree of protection IP66 according EN 60529

(A4) Test report nr.: **LOM 12.174 GP**

### (A5) Special conditions for safe use

The dimensions of the flameproof joints are, in part, other than those specified as maximum or minimum in paragraph 5 of EN 60079-1: 2007. The manufacturer shall transfer to the user the appropriate information about the dimensions of these flameproof joints.

### (A6) Individual tests

Each manufactured unit must be submitted to individual over-pressure tests according paragraph 15.1.3 of EN 60079-1:2007 at:

CEN 1\*\*: 1000 kPa

CEN 2\*\*: 1010 kPa

CEN 3\*\*: 710 kPa

### (A7) Essential Health and Safety Requirements

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

### (A8) Descriptive documents

Drawings nr.: CEN-SCH-CRT-001 (14 sheets)

Rev. 6

Date 2015-04-14