



(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 04ATEX2018**

(4) Equipment or Protection System Electrical apparatus boxes  
Type GUB...

(5) Applicant: Cooper, Crouse-Hinds Division, CEAG  
CEAG Nortem, S.A.

(6) Address: Avda. Santa Eulalia, 290  
08223 TARRASA (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 03.405 ZP**

(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:  
- Standards **EN 50014:1997 + A1:1999 + A2:1999**  
**EN 50018:2000 + A1:2002**  
**EN 50281-1-1:1998 + A1:2002**

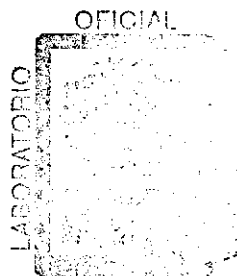
(10) If the sign X is placed after the certificate number, it indicates that the equipment or protective system is subject to special conditions for safe use specified in this certificate schedule.

(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 2 GD EEx d IIC T4..T6 IP67 T(\*) °C Ta: -20 °C / +55 °C

Carlos Fernández Ramón  
DIRECTOR OF THE LABORATORY



Madrid, 3 March 2004

Angel Vega Remesal  
Head of ATEX area

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# LABORATORIO OFICIAL J. M. MADARIAGA

## (A1) SCHEDULE

(A2) EC-Type Examination Certificate: **LOM 04ATEX2018**

(A3) Description of equipment or protective system

Electrical switch gear boxes based on the same denomination empty boxes, including external accessories, with component certificate LOM 03ATEX3107U.

Types and sizes are the same that indicated in component certificate.

The electrical devices that the manufacturer can include inside the enclosure are:

- Bus bars
- Terminals
- Low voltage transformers
- Air circuit-breakers
- Automatic circuit-breakers
- Control and operation circuits
- Servomotors without ventilation
- Starters and ballasts for discharge lamps
- Electronic apparatus
- Associated intrinsic safety apparatus

The capacitors inside the enclosure will be a discharge time lower than 3 s by the use of parallel resistors when it is necessary. In any case are permitted cells or batteries.

Temperature class is in dependence of dissipated power (in W) inside the enclosure according the following table:

Temperature class	Surface temperature	GUB-0.		GUB-2.		GUB-3.	
		T <sub>amb</sub> =40°C	T <sub>amb</sub> =55°C	T <sub>amb</sub> =40°C	T <sub>amb</sub> =55°C	T <sub>amb</sub> =40°C	T <sub>amb</sub> =55°C
T6	T85°C	60	35	100	55	140	70
T5	T105°C	85	60	145	100	200	140
T4	T135°C	150	125	255	205	360	300

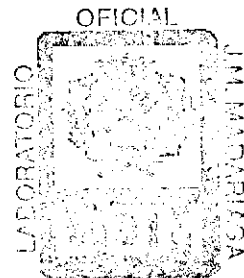
These enclosures can contain commercial associate intrinsically safe modules based on 94/9/EC directive. Arrangement of such devices and its wiring is described in manufacturer documents. All the devices must comply with marked ambient temperature Ta: -20 °C / +55 °C or standard ambient temperature Ta: -20 °C / +40 °C according marking of the boxes.

Enclosures that include electronic devices containing batteries of up to 1/100 of the free volume, or capacitors will attach the label "DO NOT OPEN WHEN AN EXPLOSIVE ATMOSPHERE IS PRESENT".

Enclosures that include capacitors will attach the label "DON NOT OPEN BEFORE xx s AFTER POWER OFF", where xx is the discharge time.

Electrical characteristics:

- Maximum voltage: 750 V
- Maximum current: 250 A
- Maximum current in bus bars: 150 A



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# LABORATORIO OFICIAL J. M. MADARIAGA

(A1) **SCHEDULE**

(A2) EC-Type Examination Certificate: LOM 04ATEX2018

(A4) Test report; nr. LOM 03.405 ZP

(A5) Special conditions for a safe use

None

(A6) Individual tests

Same as indicated in component certificate LOM 03ATEX3107U

(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.	GUB_EQUIPOS.doc	B	2003-07-14
- Drawings nr.	N116113A0006	A	1996-11-21
	N116113-0019	A	1996-06-18
	N116114A0022	A	2003-07-14
	N116114A0023	A	2003-07-14
	N116114A0026	A	1996-07-04
	N117112C0022	C	2004-01-27
	N601114A0121	A	2003-07-14

plus the descriptive documents indicated in component certificate LOM 03ATEX3107U



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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 of EC-Type Examination Certificate: **LOM 04ATEX2018 X**
- (4) Equipment or protective system: Electric gear boxes  
Typo GUB...
- (5) Manufacturer: COOPER Crouse-Hinds
- (6) Address: Avda. Santa Eulalia, 290  
08223-TERRASSA (BARCELONA)  
ESPAÑA
- (7) Test report nr: **LOM 11.223 RP**

(8) Variations included in this certificate

- Update manufacture's name
- Update the assessment base on standards EN 60079-0:2009, EN 60079-1:2007, EN 60079-11:2007 and EN 60079-31:2009
- To increase the use for ambient temperature:  $-60\text{ °C} \leq T_a \leq +55\text{ °C}$
- To include equipment with voltage up to 14 kV
- To include intrinsically safe associated apparatus

The arrangement and disposition of equipment inside the enclosure is as specified in the paragraph D.3.10 of EN 60079-1:2007 for group IIC apparatus.

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

- Intrinsically safe associated apparatus may be used only when its marked temperature is consistent with the enclosure marked temperature.
- To determine the specific parameters of intrinsically safe circuits in the case of electric combination it must follow the standard EN 60079-25

(10) Changes in individual tests

Each manufactured unit must be submitted to over-pressure tests according paragraph 15.3.1 of EN 60079-1:2007 at:

Type	Marked ambient temperature	
	Ta ≥ -20°C	Ta ≥ -60°C
GUB0.	952 kPa	1210 kPa
GUB2.	1320 kPa	1680 kPa
GUB3.	1066 kPa	1360 kPa



This supplement must be an inseparable part together with the base certificate **LOM 04ATEX2018 X**

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# LABORATORIO OFICIAL J. M. MADARIAGA

(3) Supplement nr. 1 of EC-Type Examination Certificate: **LOM 04ATEX2018 X**

(11) Changes in marking



II 2(1/2) GD

Ex d[ia Ga/ib Gb] IIC T4..T6 Gb

Ex t[ia Da/ib Db] IIIC T85..135 °C Db

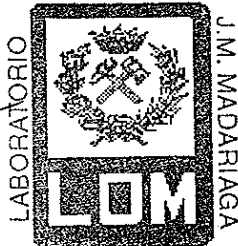
Temperature class regarding dissipated power

Temperature class	Surface temperature	GUB-0.		GUB-2.		GUB-3.	
		Ta ≤ 40°C	Ta ≤ 55°C	Ta ≤ 40°C	Ta ≤ 55°C	Ta ≤ 40°C	Ta = 55°C
T6	T 85°C	60 W	35 W	100 W	55 W	140 W	70 W
T5	T 105°C	85 W	60 W	145 W	100 W	200 W	140 W
T4	T 135°C	150 W	125 W	255 W	205 W	360 W	300 W

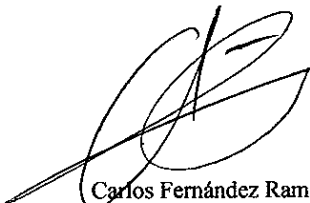
(12) Descriptive documents

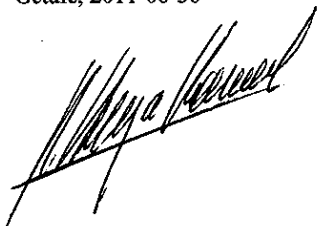
	Rev.	Date
- Description nr.: GUB Equipos Ext. Nº1	4	2011-05-05
- Drawings nr.: N117112C0004	C	2004-01-27
CCH-20110505	I	2011-05-05

OFICIAL



Getafe, 2011-06-30

  
Carlos Fernández Ramón  
DIRECTOR OF THE LABORATORY

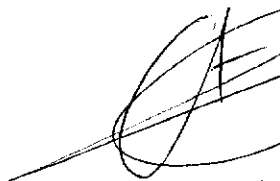
  
Angel Vega Remesal  
Head of ATEX area




(1) **ERRATUM**

- (3) EC-Type Examination Certificate nr. **LOM 04ATEX2018**
- (4) Certificate date 2004-03-03
- (5) Equipment or protection system Electrical apparatus boxes  
Type GUB...
- (6) Errata

Page	Paragraph	Correction
3/3	(A8)	The drawing nr. <i>N117112C0022</i> must be changed to nr. <i>N117112C0004</i>

  
OFICIAL  
LABORATORIO OFICIAL J. M. MADARIAGA  
LOM  
Carlos Fernández Ramón  
DIRECTOR OF THE LABORATORY

Madrid, 9th December, 2008

  
Angel Vega Remesal  
Head of ATEX area

