



- (2) **Equipment and protective systems intended for use in potentially explosive atmospheres
Directive 94/9/EC**

(1) **EC-TYPE EXAMINATION CERTIFICATE**

- (3) Number of the EC type examination certificate: **INERIS 03ATEX0238X**

- (4) Equipment or protective system:

FLAMEPROOF UNITS TYPE 214A4G or 214A4GD

- (5) Manufacturer: **LE LAS**

- (6) Address: **34/36, rue Roger Salengro
F- 94134 FONTENAY-SOUS-BOIS**

- (7) This equipment or protective system and any other acceptable alternative of this one are described in the appendix of this certificate and the descriptive documents quoted in this appendix.

- (8) The INERIS, notified body and identified under number 0080, in accordance with article 9 of Council Directive 94/9/EC of the 23rd March 1994, certifies that this equipment or protective system fulfils the Essential of Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres, described in appendix II of the Directive.

The examinations and the tests are consigned in official report No P54947/03.

- (9) The respect of the Essential Health and Safety Requirements is ensured by:

- conformity with:

EN 50 014 of June 1997 + Amendment 1 and 2
EN 50 018 of November 2000 + Amendment 1
EN 50 281-1-1 of September 1998 + Amendment 1

- specific solutions adopted by the manufacturer to meet the Essential Health and Safety Requirements described in the descriptive documents.


- (10) Sign X, when it is placed following the Number of the EC type examination certificate, indicates that this equipment and protective system is subjected to the special conditions for safe use, mentioned in the annex of this certificate.

- (11) This EC type examination certificate relates only to the design, examination and tests of the specified equipment or protective system in accordance to the directive 94/9/EC. Further requirements of the Directive apply to the manufacturing process and supply of this equipment or protective system, these are not covered by this certificate.
- (12) The marking of the equipment or the protective system will have to contain:

 II 2 G


EEx d IIB T6

or

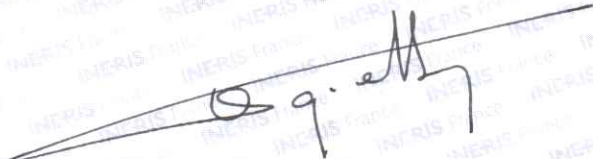
 II 2 GD

EEx d IIB T6 IP6X T85°C

Verneuil-en-Halatte, 2003 11 23

P. d.

C. PETITFRERE

Engineer at the Laboratory for Certification
of ATEX Equipment



Director of the Certifying Body,
By delegation
B. PIQUETTE
Deputy manager of Certification



(13)

ANNEX

(14) EC TYPE EXAMINATION CERTIFICATE N° INERIS 03ATEX0238X

(15) DESCRIPTION OF THE EQUIPMENT OR THE PROTECTIVE SYSTEM

The unit type 214 A4G or type 214 A4GD is made of light alloy and consists of a casing closed by a hinged lid and secured by screws.

The content of the unit is detailed in the descriptive note and may in fact contain or be fitted with:

- an electric motor with or without appropriate transformer,
- on the lid: operating levers, indicator lights, and inspection windows.

Connections to the external electrical circuits are made via cable penetrations of a certified type.

PARAMETERS RELATING TO THE SAFETY

Electrical characteristics at the terminal block:


Maximum operating voltage: 250 V
 Maximum dissipated power: 50 W

Characteristics of the sintered metal

Porosity : stainless steel : 40 µm and bronze: 60 µm
 Minimum density : stainless steel: 4,8 g/cm³ and bronze: 5,2 g/cm³

MARKING

Marking must be readable and indelible; it must comprise the following indications:

- LE LAS
- 34/36, rue Roger Salengro
- F- 94134 FONTENAY-SOUS-BOIS
- 214A4G ou 214A4GD
- INERIS 03ATEX0238X
- (serial number)
- (Year of construction)
-  II 2 G EEx d IIB T6

or



- II 2 GD EEx d IIB T6 IP6X T85°C
- DO NOT OPEN WHEN ENERGIZED
- AFTER SWITCHING OFF, WAIT 12 MINUTES BEFORE OPENING

The whole of marking can be carried out in the language of the country of use.

The equipment or protective system must also carry the marking normally envisaged by the standards of construction which relate to it.

ROUTINE EXAMINATIONS AND TESTS

In accordance with section 16.1 of standard EN 50018, each item of the equipment defined above must have successfully passed, prior to delivery, a static overpressure test at 8.9 bar, lasting between 10 and 60 seconds.

(16) DESCRIPTIVE DOCUMENTS

The report is composed of the documents quoted hereafter, constituting the descriptive file of the apparatus, object of this certificate.

Descriptive note	(6 pages)	dated on	2003.11.04
Instructions	(4 pages)	dated on	2003.11.04
Drawing No TLH214A4ACE 1/3	rev.A	dated on	2003.03.19
Drawing No TLH214A4ACE 2/3	rev.A	dated on	2003.03.19
Drawing No TLH214A4ACE 3/3	rev.A	dated on	2003.03.19
Drawing No DOC128ACE	rev.A	dated on	2003.03.19

These documents are signed on 04 November 2003.

(17) SPECIAL CONDITIONS FOR SAFE USE

For an installation in dusty explosive atmospheres, the user must grease the seal surface of the lid and clean regularly in order to avoid accumulation of dust.

The fastenings used for assembling the different parts of flameproof casings should be of the quality defined in the descriptive documents, or better.

(18) ESSENTIAL REQUIREMENTS OF SAFETY AND HEALTH

The respect of the Essential Health and Safety Requirements is ensured by:

- conformity to the European standards EN 50 014, EN 50 018 and EN 50 281-1-1.
- the whole of the provisions adopted by the manufacturer and described in the descriptive documents.