



- (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 04ATEX0009X**

- (4) Protective system or equipment:

FLAMEPROOF ENCLOSURE TYPE ERSA...

(the points are replaced by numbers and/or letters corresponding to the variation of manufacturing)

- (5) Manufacturer: **TECHNOR ATEX**
- (6) Address: **F - 16430 CHAMPNIERS**
- (7) This protective system or equipment 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 protective system or equipment 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 P56379/04.

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

- conformity with:

EN 50 014	of June	1997 + A1 and A2
EN 50 018	of November	2000 + A1
EN 50 019	of July	2000
EN 50 020	of June	2002
EN 50281-1-1	of September	1998 + A1

- 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:



or 2 (1) GD

EEx d IIB or de IIB T6 or T5 or T4
IP65/66 T85°C or T100°C or T135°C

EEx d [ia] or de [ia] or d [ia] ia or de [ia]ia IIB T6 or T85°C

Verneuil-en-Halatte, 2004 02 05

X. LEFEBVRE
Engineer at the Laboratory of 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 04ATEX0009X

(15)

DESCRIPTION OF THE EQUIPMENT OR THE PROTECTIVE SYSTEM

Metallic enclosures of different sizes intended to contain equipment defined in technical note. These enclosures can be fitted with any control auxiliaries and lighting.

Enclosures gets the protection degrees IP65 or IP66 as a variation according to European standard EN 60 529.

The boxes, as a variation EEx de, are associated with the equipment type DE1WH covered by certificate INERIS03ATEX0006 or type TNCN covered by DNV-2001-OSL-ATEX-0176 or type TNCC covered by DNV-2003-OSL-ATEX-0042.

Enclosures can be fitted with IS elements and or None IS elements or only with IS elements. Different elements of intrinsic safety are defined in technical note and are covered by an EC type certificate.

PARAMETERS RELATING TO THE SAFETY

- Maximum voltage : 1000V
- Maximum power : see table in instructions
- Types of lamps : see table in instructions

MARKING

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

- TECHNOR ATEX
- F - 16430 CHAMPNIERS
- ERA...(1)
- INERIS 04ATEX0009X
- (serial number)
- (year of construction)



IP65/66

EEx d IIB or de IIB T6 T85°C or

EEx d IIB or de IIB T5 T100°C (Tamb :-20°C/+50°C) Tcable :81°C or

EEx d IIB or de IIB T4 T135°C (Tamb : -20°C/+60°C) T cable : 91°C

DO NOT OPEN WHILE ENERGIZED

- AFTER DE ENERGIZING WAIT 20 MN BEFORE OPENING (for T5 or T100°C) or
- AFTER DE ENERGIZING WAIT 30 MN BEFORE OPENING (for T6 or T85°C) or
- DO NOT OPEN WHEN AN EXPLOSIVE ATMOSPHERE MAY BE PRESENT

For version with elements protected by intrinsic safety

 II 2 GD

EEx d [ia] or de [ia] IIB T6 or T85°C IP65/66 or

or  II 2 (1) GD

EEx d [ia] ia or de [ia]ia IIB T6 or T85°C IP65/66

DO NOT OPEN WHILE ENERGIZED

- (1) The type is completed by letters and numbers corresponding to variation

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

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

ROUTINE EXAMINATIONS AND TESTS

According to 16.1 of standard EN 50 018, each example of the apparatus defined above must have successfully passed before delivery an overpressure test, of a period comprised between 10 and 60 secondes under 11,5 bar.

(16) DESCRIPTIVE DOCUMENTS

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

- Certification file N° TN071A04 issue.1 dated and signed on 2004.01.14
- This file including 10 items (14 pages).

(17) SPECIAL CONDITIONS FOR SAFE USE

The yield stress of the fastener elements of each part of the flame proof casing must be at least equal to 780 N/mm².

User shall connect on intrinsic safety terminals only elements which maximum characteristics shall be below or equal to characteristics defined in technical note.

The interconnection of external circuit to this material shall be in accordance with intrinsic safety.

Enclosures containing None IS and IS circuits shall be fitted with an internal probe switching off IS circuits when the thermal probe will reach its threshold defined in the descriptive documents.

The cable entries shall be compatible with degree of protection of the box and the cable temperature indicated in the marking paragraph.

The surface of joint flanged gap between cover and body shall be covered with specified grease,

For use in potentially explosive atmospheres due to combustible dust:

- User shall perform a regular cleaning of enclosure to limit dust layers on enclosure sides.

These special conditions are defined in instruction notice.

(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 50014, EN 50018, EN 50019, EN 50020 and EN 50281-1-1.
- the whole of the provisions adopted by the manufacturer and described in the descriptive documents.