



(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 03ATEX0122**

(4) Protective system or equipment:

BOXES TYPE XAW-P.. or XAW-G.. or XAW-S.. or XAW-F..

(5) Manufacturer: **TECHNOR ATEX**

(6) Address: **ZA Les Montagnes
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 P57378/03.


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

- conformity with:

EN 50 014	of June	1997 + Amendments 1 and 2
EN 50 018	of November	2000 + Amendment 1
EN 50 019	of July	2000
EN 50 028	of February	1987
EN 50281-1-1	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 GD

EEx e II or em II or ed IIC or emd IIC T6 to T4

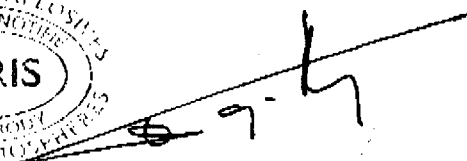
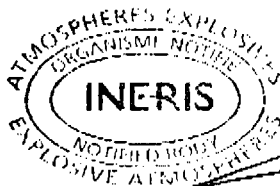
IP65 or IP66 T85°C to T135°C

Verneuil-en-Halatte, 2003 12 31



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 03ATEX0122

(15)

DESCRIPTION OF THE EQUIPMENT OR THE PROTECTIVE SYSTEM

Metallic or plastic boxes of different sizes fitted with control, signal and measurement elements. Elements are defined by the descriptive documents.

The enclosures are IP65 according to EN 60529 in normal manufacturing and IP66 in special manufacturing.

The connection to external electrical circuit is ensured by certified type of cable glands of certified type.

PARAMETERS RELATING TO THE SAFETY

Terminals:

- Maximal voltage : 660V according to the model,
- Current density : 3,5A/mm² for terminal ≤ 10mm²
: 3A/mm² for 16mm² ≤ terminal ≤ 25mm²
: 2,8A/mm² for terminal ≤ 35mm²
limitée à 360A.

Lights with transformers:

- Maximal voltage : 500V/8V,
- Maximal current : 0,2A
- Maximal power of lamp : 1,2W
- Led + thermal diffuser 8V : 0,6W

Direct lights:

- Maximal voltage : 400V,
- Maximal current : 0,016A
- Maximal power of incandescent lamp : 2W
- Maximal power of neon lamp : 1,5W
- Led + thermal diffuser 6 to 48V : 0,6W

Switches:


- Maximal voltage : 500V,
- Maximal current : 10A

Amperemeters:

- 2 rates of current : 1 and 5 A
In the two cases $I_{th} = 50I_n$ and $I_{dyn} = 1,3 \times 125I_n$

MARKING

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

- TECHNOR ATEX
- ZA Les Montagnes
- F - 16430 CHAMPNIERS
- XAW-P.. or XAW-G.. or XAW-S.. or XAW-F..
- INERIS 03ATEX0122
- (serial number)
- (year of construction)
-  II 2 GD
- EEx e II or em II or ed or emd IIC T6 to T4 IP65 or IP66 T85°C to T135°C
- DO NOT OPEN WHILE ENERGIZED
- PREVENT FROM DUST DEPOSITS

Boxes with switches:

- EEx ed IIC T6 T85°C Tamb: -20°C, +60°C
- Nominal voltage and current

Boxes with direct lights:

- EEx e II T4 T135°C Tamb: -20°C, +60°C
- Nominal voltage and current
- Or
- EEx e II T6 T85°C Tamb: -20°C, +50°C
- EEx e II T5 T100°C Tamb: -20°C, +60°C
- Led + thermal diffuser from 6 to 48V: 0,6W

Boxes with lights with transformers:

- EEx e II T6 T85°C Tamb: -20°C, +50°C
- EEx e II T5 T100°C Tamb: -20°C, +60°C
- Led + thermal diffuser 8V: 0,6W
- Or
- EEx e II T4 T135°C Tamb: -20°C, +60°C
- Incandescent or neon lamp 500V/8V: 1,2W

Boxes with amperemeters C48D:

- EEx em II T6 T85°C Tamb: -20°C, +50°C
- Un: 250V
- In: 1A Ith: 50A Idyn: 163A
- In: 5A Ith: 250A Idyn: 813A

Boxes with terminals:

- EEx e II T6 T85°C
- EEx e II T5 T100°C Tamb: -20°C, +50°C
- EEx e II T4 T135°C Tamb: -20°C, +60°C
- Nominal voltage and current

Boxes with terminals, switches:

- EEx ed IIC T6 T85°C Tamb: -20°C, +60°C
- Terminals Un: 500V In: 10A
- *Nominal voltage and current*

Boxes with switches, lights type led with transformator or direct :

- EEx ed IIC T6 T85°C Tamb: -20°C, +50°C
- EEx ed IIC T5 T100°C Tamb: -20°C, +60°C
- Led + thermal diffuser 6 to 48V: 0,6W
- Led with transformator + thermal diffuser 8V: 0,6W
- *Nominal voltage and current*

Boxes with switches, incandescent or neon lamps with transformators, incandescent or neon direct lamps:

- EEx ed IIC T4 T135°C Tamb: -20°C, +60°C
- Incandescent or neon direct lamps 6 to 400V: 2W
- Incandescent or neon lamps with transformator 500V/8V: 1,2W
- *Nominal voltage and current*

Boxes with terminals, lights type led with transformator or direct:

- EEx e II T6 T85°C Tamb: -20°C, +50°C
- EEx e II T5 T100°C Tamb: -20°C, +60°C
- Led + thermal diffuser 6 to 48V: 0,6W
- Led with transformator + thermal diffuser 8V: 0,6W
- Terminals Un: 500V In: 10A

Boxes with terminals, incandescent or neon lamps with transformators, incandescent or neon direct lamps:

- EEx e II T4 T135°C Tamb: -20°C, +60°C
- Incandescent or neon direct lamps 6 to 400V: 2W
- Incandescent or neon lamps with transformator 500V/8V: 1,2W
- Terminals Un: 500V In: 10A

Boxes with terminals, switches, lights type led with transformator or direct:

- EEx ed IIC T6 T85°C Tamb: -20°C, +50°C
- EEx ed IIC T5 T100°C Tamb: -20°C, +60°C
- Led + thermal diffuser 6 to 48V: 0,6W
- Led with transformator + thermal diffuser 8V: 0,6W
- Terminals Un: 500V In: 10A
- *Nominal voltage and current*

Boxes with terminals, switches, incandescent or neon lamps with transformators, incandescent or neon direct lamps:

- EEx ed IIC T4 T135°C Tamb: -20°C, +60°C
- Incandescent or neon direct lamps 6 to 400V: 2W
- Incandescent or neon lamps with transformator 500V/8V: 1,2W
- Terminals Un: 500V In: 10A
- *Nominal voltage and current*

Boxes with amperemeters, switches :

- EEx emd IIC T6 T85°C Tamb: -20°C, +50°C
- Un: 250V
- In: 1A Ith: 50A Idyn: 163A
- In: 5A Ith: 250A Idyn: 813A
- Nominal voltage and current

Boxes with amperemeters, terminals, switches :

- EEx emd IIC T6 T85°C Tamb: -20°C, +50°C
- Un: 250V
- In: 1A Ith: 50A Idyn: 163A
- In: 5A Ith: 250A Idyn: 813A
- Terminals Un: 500V In: 10A
- Nominal voltage and current

Boxes with amperemeters, lights type led with transformator or direct:

- EEx em II T6 T85°C Tamb: -20°C, +50°C
- Un: 250V
- In: 1A Ith: 50A Idyn: 163A
- In: 5A Ith: 250A Idyn: 813A
- Led + thermal diffuser 6 to 48V: 0,6W
- Led with transformator + thermal diffuser 8V: 0,6W

Boxes with amperemeters, incandescent or neon lamps with transformators, incandescent or neon direct lamps:

- EEx em II T4 T135°C Tamb: -20°C, +50°C
- Un: 250V
- In: 1A Ith: 50A Idyn: 163A
- In: 5A Ith: 250A Idyn: 813A
- Incandescent or neon direct lamps 6 to 400V: 2W
- Incandescent or neon lamps with transformator 500V/8V: 1,2W

Boxes with amperemeters, terminals, lights type led with transformator or direct:

- EEx em II T6 T85°C Tamb: -20°C, +50°C
- Un: 250V
- In: 1A Ith: 50A Idyn: 163A
- In: 5A Ith: 250A Idyn: 813A
- Led + thermal diffuser 6 to 48V: 0,6W
- Led with transformator + thermal diffuser 8V: 0,6W
- Terminals Un: 500V In: 10A

Boxes with amperemeters, terminals, incandescent or neon lamps with transformators, incandescent or neon direct lamps:

- EEx em II T4 T135°C Tamb: -20°C, +50°C
- Un: 250V
- In: 1A Ith: 50A Idyn: 163A
- In: 5A Ith: 250A Idyn: 813A
- Incandescent or neon direct lamps 6 to 400V: 2W
- Incandescent or neon lamps with transformator 500V/8V: 1,2W
- Terminals Un: 500V In: 10A

Boxes with amperemeters, switches, lights type led with transformer or direct:

- EEX emd IIC T6 T85°C Tamb: -20°C, +50°C
- Un: 250V
- In: 1A Ith: 50A Idyn: 163A
- In: 5A Ith: 250A Idyn: 813A
- Led + thermal diffuser 6 to 48V: 0,6W
- Led with transformer + thermal diffuser 8V: 0,6W
- Nominal voltage and current

Boxes with amperemeters, switches, incandescent or neon lamps with transformers, incandescent or neon direct lamps :

- EEX emd IIC T4 T135°C Tamb: -20°C, +50°C
- Un: 250V
- In: 1A Ith: 50A Idyn: 163A
- In: 5A Ith: 250A Idyn: 813A
- Incandescent or neon direct lamps 6 to 400V: 2W
- Incandescent or neon lamps with transformer 500V/8V: 1,2W
- Nominal voltage and current

Boxes with ampèremètres, terminals, switches, lights type led with transformer or direct:

- EEX emd IIC T6 T85°C Tamb: -20°C, +50°C
- Un: 250V
- In: 1A Ith: 50A Idyn: 163A
- In: 5A Ith: 250A Idyn: 813A
- Led + thermal diffuser 6 to 48V: 0,6W
- Led with transformer + thermal diffuser 8V: 0,6W
- Terminals Un: 500V In: 10A
- Nominal voltage and current

Boxes with amperemeters, terminals, switches, incandescent or neon lamps with transformers, incandescent or neon direct lamps:

- EEX emd IIC T4 T135°C Tamb: -20°C, +50°C
- Un: 250V
- In: 1A Ith: 50A Idyn: 163A
- In: 5A Ith: 250A Idyn: 813A
- Incandescent or neon direct lamps 6 to 400V: 2W
- Incandescent or neon lamps with transformer 500V/8V: 1,2W
- Terminals Un: 500V In: 10A
- Nominal voltage and current

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

In accordance with 7.1 of standard EN 50 019, each sample of the increased safety part of the equipment must undergo a dielectric strength test, carried out in accordance with 6.1 of standard EN 50 019.

The tests for each already certified apparatus corresponds to the conditions indicated in the corresponding certificates.

(16) DESCRIPTIVE DOCUMENTS

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

- Certification file N° TN024A04 issue.1 dated on 2003.01.13 and signed on 2003.05.27

This file including 15 items (22 pages).

(17) SPECIAL CONDITIONS FOR SAFE USE

None.

(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 50028 and EN 50281-1-1.
- the whole of the provisions adopted by the manufacturer and described in the descriptive documents.