



(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 03ATEX0168X**

(4) Equipment or protective system:

Explosion protection system TYPE EPACO

(5) Manufacturer: **FIKE Europe BVBA**

(6) Address: **Toekomstlaan 52
B-2200 HERENTALS**

(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 P35624/03.

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

- conformity with:

EN 1127-1 of June 1997

- 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:



Verneuil-en-Halatte, 2003 12 17

A handwritten signature in blue ink, appearing to read 'T. Houeix'.

T. HOUEIX
Engineer at the Laboratory for Certification
of ATEX Equipment

A handwritten signature in blue ink, appearing to read 'B. Piquette'.

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



(13)

ANNEX

(14)

EC TYPE EXAMINATION CERTIFICATE N° INERIS 03ATEX0168X

(15)

DESCRIPTION OF THE EQUIPMENT OR THE PROTECTIVE SYSTEM

The EPACO system comprises an EPC Controller, up to six HRD Explosion Suppressor container typeL and one or more explosion detectors of the types as listed below. It can for instance be used as a protective system to suppress explosions of agricultural dusts (or dusts which are as easily suppressed).

The HRD Explosion Suppressor container typeL is already ATEX certified with certification number INERIS 03ATEX0058X.

The listed detectors are:

- the Fike Explosion pressure detectors certified ISSep 03ATEX0088X,
- the Fike Rupture indicators and disks certified ISSep 02ATEX0047X,
- the Wika transmitter model IS-11 certified DMT 00ATEX045 X,
- the Beta switch model W3P302 certified KEMA 02ATEX2186 X.

Except the last one, these detectors have to be connected to the EPC controller via an appropriate intrinsic safety barrier, when they are used in an explosive atmosphere.

PARAMETERS RELATING TO THE SAFETY

The architecture of the system is designed with the safety integrity level SIL 2 in accordance with the EN 61 508 standard.

MARKING

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

- FIKE Europe BVBA
Toekomstlaan 52
B-2200 HERENTALS
- EPACO
- INERIS 03ATEX0168X
(serial number)
- (year of manufacture)

 II GD

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

None.

(16) DESCRIPTIVE DOCUMENTS

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

- User Instructions Notice 8.8513.00.0 (35 pages) dated on 2003.10.03
- EPC Technical Construction File n° 7.5302.00.0 dated on 2003.12.03

These documents were signed on 3rd December 2003.

(17) SPECIAL CONDITIONS FOR SAFE USE

Special conditions are present in the User Instructions Notice.

The Fike Explosion pressure detectors, the Fike Rupture indicators and disks and the Wika transmitter model IS-11 have to be connected to the EPC via an appropriate intrinsic safety barrier and the system constituted have to be in accordance with EN 50039 standard.

(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 1127-1.
- the whole of the provisions adopted by the manufacturer and described in the descriptive documents.