

**INERIS**

- (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 04ATEX0045**

- (4) Protective system or equipment :

PUSH BUTTON AND SIGNALING BOXES TYPE EFDC.

(The point is replaced by one or two numbers according to the size of the enclosure)

- (5) Manufacturer: **ANTIDEFAGRANTI SANTAMBROGIO (ADS)**

- (6) Address:
Viale Rimembranze, 93
20099 Sesto San Giovanni (MI)
ITALY

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

- (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 N°P37206/04.

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

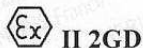
- conformity with:

EN 50 014 of June 1997 + A1 and A2
EN 50 018 of November 2000 + A1
EN 50 281-1-1 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:



**EEx d IIB T6 or T5 or T4
T85°C or T100°C or T135°C – IP65**

Verneuil-en-Halatte, 2004 09 07

A handwritten signature in black ink, appearing to be 'X. LEFEBVRE'.

X. LEFEBVRE

Engineer at the Laboratory of Certification of ATEX
Equipment

A handwritten signature in black ink, appearing to be 'B. PIQUETTE'.

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



(13)

ANNEX

(14)

EC TYPE EXAMINATION CERTIFICATE N°INERIS 04ATEX0045

(15) DESCRIPTION OF THE EQUIPMENT OR THE PROTECTIVE SYSTEM

The enclosure consists of a body closed by a cover fixed by screws.

The cover can be fitted with any control auxiliaries, push button and lighting.

This enclosure has the degrees of protection IP65 according to European standard EN 60 529.

PARAMETERS RELATING TO THE SAFETY

Control auxiliaries and push button

Maximum supply voltage : 660 V (Ac or Dc)

Characteristic of the lighting

Maximum supply voltage : 240 V

Power of lamps :

- 3 watts for incandescent lamp with class T6 or T5
- 5 watts for incandescent lamp with class T4

Maximum dissipated powers :

Type of the enclosure	Maximum powers dissipated (W) according the temperature class		
	T6 ambient 40°C	T5 ambient 60°C	T4 ambient 40°C or 60°C
EFDC2	6	6	10
EFDC3	9	9	10
EFDC4	12	12	15
EFDC6	18	18	20
EFDC8	24	24	30
EFDC11	33	33	40

MARKING

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

ADS

I - 20099 Sesto San Giovanni

(*)

INERIS 04ATEX0045

(Serial number)

(Year of construction)



II 2GD

EEx d IIB (**)

T (***) IP65

T.amb : (***)

Use screws minimum quality : 8.8

DO NOT OPEN WHEN ENERGIZED

WAIT 10 MINUTES BEFORE OPENING ENCLOSURE

(*) One of the following type : EFDC2 or EFDC3 or EFDC4 or EFDC6 or EFDC8 or EFDC11.

(**) T6 or T5 or T4

(***) T85°C or T100°C or T135°C

(****) -20°C to 40°C or -20°C to 60°C

The whole 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 sample of the apparatus defined above must have successfully passed before delivery an overpressure test, of a period comprised between 10 and 60 seconds under 11 bar.

(16) DESCRIPTIVE DOCUMENTS

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

Certification file n° 26 (11 headings) dated and signed on 2004.07.21.

(17) SPECIAL CONDITIONS FOR SAFE USE

See instructions.

(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.

ADDITION

- (3) INERIS 04ATEX0045/01
- (4) PUSH BUTTON AND SIGNALING BOXES TYPE EFDC.H
- (5) Made by ANTIDEFLAGRANTI SANTAMBROGIO

(15) PURPOSE OF THE ADDITION

Specific construction for group IIB +H2.

PARAMETERS RELATING TO THE SAFETY

The parameters relating to the safety mentioned in the basic certificate are unchanged.

MARKING

The marking defined in the basic certificate is modified as follows:

ADS

I - 20099 Sesto San Giovanni

(*)

INERIS 04ATEX0045

(Serial number)

(Year of construction)

Ex II 2G

Ex d IIB + H₂ (**)

T.amb : (***)

Use screws with minimum quality : 8.8

WARNING :

DO NOT OPEN WHEN ENERGIZED

WAIT 10 MINUTES BEFORE OPENING ENCLOSURE

- (*) One of the following type : EFDC2H or EFDC3H or EFDC4H or EFDC6H or EFDC8H or EFDC11H.

- (**) T6 or T5 or T4

- (***) -20°C to 40°C or -20°C to 60°C

ROUTINE EXAMINATIONS AND TESTS

The routine examinations and tests stipulated by the basic certificate are unchanged.

(16) DESCRIPTIVE DOCUMENTS

The descriptive documents quoted hereafter constitute the technical documentation describing the modification of the equipment, subject of this present addition.

Certification file n° 35 (11 parts) dated and signed on 2006.09.04.

(17) SPECIAL CONDITIONS FOR SAFE USE

None.

(18) ESSENTIAL SAFETY AND HEALTH REQUIREMENTS

The respect of the Essential Health and Safety Requirements is completed as follows:

- Conformity to the European standards EN 60 079-0 and EN 60 079-1.
- All provisions adopted by the manufacturer and defined in the descriptive documents.

Verneuil-en-Halatte, 2006 09 11



C. PETITFRERE

Project Manager at the ATEX
Equipment Certification Laboratory

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

Business followed by:
Gilbert GIACALONE
Direct phone: +33 (0)3 44 55 63 83
Direct Fax: +33 (0)3 44 55 67 04
Email: Gilbert.Giacalone@ineris.fr

INERIS

PEPPERL+FUCHS srl
Via delle Arti e Mestieri, 4
20050 SULBIATE (MB)
ITALY

Verneuil-en-Halatte, on December 6, 2010

O/Ref. DCE-10-116622-13339B - EQEN/CA
File n°: CL 116623 / P116622 - DM EQEN N°024059

Subject : Change of Trade names

I confirm that all EC type examination certificates and their addition having been established to:

ANTIDFLAGRANTI SANTAMBROGIO (ADS)
Viale Rimanbraze, 93
I-20099 SESTO SAN GIOVANNI (MI)

can be marked with the new trade name:

PEPPERL+FUCHS GmbH
Lilienthalstraße 200
D-68307 MANNHEIM

due to the fact the ATEX equipment owned by ADS are now the PEPPERL+FUCHS' property.

Only the manufacturer name is changed, all other statements and conditions written in the certificates are still valid.

This letter can be considered as an addition of concerned certificates to justify the change of the manufacturer name.

Yours faithfully,



Thierry HOUËIX
Certification Officer
Certification Division

Copie : DM

Parc Technologique Alata BP 2 F-60550 Verneuil-en-Halatte
tél +33(0)3 44 55 66 77 fax +33(0)3 44 55 66 99 internet www.ineris.fr

Institut national de l'environnement industriel et des risques

Etablissement public à caractère industriel et commercial - RCS Sentis B 381 984 921 - Siret 381 984 921 00019 - APE 743B