

- (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 07ATEX0025X**

- (4) Equipment or protective system:

OXYGEN ANALYZERS TYPE GPR-18MS or GPR-18 or GPR-28

- (5) Manufacturer: **Advance instruments inc**
(6) Address: **2855 METROPOLITAN PLACE POMONA CA 91767 USA**

- (7) This equipment or protective system 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 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 annex II of the Directive.

The examinations and the tests are consigned in confidential report No P87767/07.


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

- conformity with:

EN 60 079 0 2006
EN 60 079 1 2004

- 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

Verneuil-en-Halatte, 2007 09 12

Xavier LEFEBVRE
Project Manager at the ATEX
Equipment Evaluation Laboratory

Director of the Certifying Body,
By delegation
T.HOUEIX
Certification Delegate
Certification Division

(13) **A N N E X**

(14) **EC TYPE EXAMINATION CERTIFICATE N° INERIS 07ATEX0025X**

(15) **DESCRIPTION OF THE EQUIPMENT OR THE PROTECTIVE SYSTEM**

Enclosure fitted with a glass window contains a whole of electrical and electronical equipment intended for oxygen analysis defined in the descriptive document, protected by both certified flameproof enclosure and defined flame arrestors.

PARAMETERS RELATING TO THE SAFETY

Max rated supply voltage : 230 Vdc or Vac
Threshold of internal thermal heater if any: 65°C
Dissipated power for temepature class T6:205W
Dissipated power for temperature class T5:310W

MARKING

Marking has to be readable and indelible; it has to include the following indications:

Advance instruments inc
2855 METROPOLITAN PLACE POMONA CA 91767USA
GPR-18MS or GPR-18 or GPR-28
INERIS 07ATEX0025X
(Serial number)
(Year of construction)

 II 2 G

Ex d IIB or dIIB+H2 T6 or T5

Marking may be carried out in the language of the country of use.

The protective system or equipment has also to carry the marking normally stipulated by its construction standards.

ROUTINE EXAMINATIONS AND TESTS

None.

(16) DESCRIPTIVE DOCUMENTS

The descriptive document quoted hereafter constitute the technical documentation of the equipment, subject of this certificate.

- Certification File (17 items incl drawings descriptive note instructions) signed on 2007.07.24

(17) SPECIAL CONDITIONS FOR SAFE USE

The yield stress of the fastener elements of the flameproof enclosure must be at least equal to those of screws A2-70.

A regular cleaning of flame arrestors shall be performed.

(18) ESSENTIAL SAFETY AND HEALTH REQUIREMENTS

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

- Conformity to the European standards EN 60 079-0 EN 60079-1.
- All provisions adopted by the manufacturer and defined in the descriptive documents.

This equipment is not considered as a safety device according to the definitions of Annex II.1.5 of ATEX94/EC Directive.