



- (2) **Equipment and protective systems intended for use in potentially explosive atmospheres**  
**Directive 94/9/EC**

## **EC-TYPE EXAMINATION CERTIFICATE**

- (3) Number of the EC type examination certificate: **INERIS 15ATEX0049X**

- (4) Equipment or protective system:

**EXPLOSION-PROOF MONITOR TYPE YTJ-A**

- (5) Manufacturer: **Nanyang Yitong Explosion-proof Electric Co., Ltd.**

- (6) Address: **Eco-Industrial Park, Funiu Road, Nanyang,  
Henan, CHINA**

- (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) INERIS, notified body and identified under number 0080, in accordance with article 9 of Council Directive 94/9/EC of the 23rd March 1994, and accredited by COFRAC under number 5-0045 for certification of products and services (scope of accreditation available on the website [www.cofrac.fr](http://www.cofrac.fr)) 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 report No 030611/15.

The rules of certification are available on the website [www.ineris.fr](http://www.ineris.fr).

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

- conformity with:

EN 60079-0 : 2012/A11:2013  
EN 60079-1 : 2007  
EN 60079-31 : 2009

- 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 2GD

Verneuil-en-Halatte, 2015.11.20



  
The Chief Executive Officer of INERIS  
By delegation

**Thierry HOUÉIX**  
Délégué Certification ATEX  
Ex Certification Officer



(13)

## ANNEX

(14)

EC TYPE EXAMINATION CERTIFICATE N° INERIS 15ATEX0049X

(15)

### DESCRIPTION OF THE EQUIPMENT OR THE PROTECTIVE SYSTEM

The explosion-proof monitor type YTJ-A is made of one flameproof enclosure in stainless steel with sealed transparent windows, equipped with a Liquid Crystal Display (LCD), and cable entry with filling compound.

This equipment gets the degree of protection IP65, according to EN/IEC 60529 standards.

### PARAMETERS RELATING TO THE SAFETY

- Rated voltage : 12 V DC
- Maximum current : 3 A

### MARKING

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

Nanyang Yitong Explosion-proof Electric Co., Ltd.  
Eco-Industrial Park, Funiu Road, Nanyang, Henan, CHINA

YTJ-A

INERIS 15ATEX0049X

(Serial number)

(Year of construction)



II 2 GD

Ex d IIB T6 Gb

Ex tb IIIC T80°C Db IP65

Tamb = -20°C to +60°C

**WARNINGS :** DO NOT OPEN WHEN AN EXPLOSIVE ATMOSPHERE IS PRESENT.  
DO NOT OPEN WHEN ENERGIZED

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**

In accordance with clause 16.1 of the EN 60079-1 standard, the equipment defined above must have successfully passed before delivery an overpressure test, of a period comprised between 10 and 60 seconds under 8 bar.

## **(16) DESCRIPTIVE DOCUMENTS**

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

- Product drawings YTJ-A (13 drawings) dated on 2014.08.24
- Annex 1 Operational manual OYT.463.0008 dated on 2014.04.10
- Annex 2 Certificate of cable gland
- Annex 3 Adhesive process document Q/YT3007-2014
- Annex 4 Static pressure tests report
- Annex 5 Material report
- Annex 6 Material report

## **(17) SPECIAL CONDITIONS FOR SAFE USE**

- The width of flameproof joints is more than the values specified in the tables of the EN 60079-1 standard.
- The gap of flameproof joints is less than the values specified in the table 1 of the EN 60079-1 standard.
- The screws used for the assembly of the various parts of explosion-proof enclosures must have yield stress higher or equal to 700 MPa.

The other conditions are stipulated in the instructions.

## **(18) ESSENTIAL SAFETY AND HEALTH REQUIREMENTS**

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

- Conformity to the standards quoted in clause (9).
- All provisions adopted by the manufacturer and defined in the descriptive documents.