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- (1) **EC TYPE EXAMINATION CERTIFICATE**
- (2) **Equipment or protective system intended for use  
in potentially explosive atmospheres  
Directive 94/9/EC**
- (3) EC type examination certificate number: **ISSeP13ATEX003**
- (4) Equipment or protective system: Large Format Screen Enclosures.
- (5) ~~Applicant – Manufacturer – Authorized representative in the Community:~~  
CE-TEK (Controls & Enclosure Technik)
- (6) Address: Unit 1 Tideswell Business Park  
Tideswell, Derbyshire, SK17 8NY  
England
- (7) This equipment or protective system and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.
- (8) ISSeP, notified body N° 0492 in accordance with article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres given in annex II to the Directive.
- The examination and test results are recorded in confidential report N° 12123.
- (9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with the following documents:
- |                     |                   |                  |
|---------------------|-------------------|------------------|
| - EN 60079-1: 2007  | EN 60079-2: 2007  | EN 60079-7: 2007 |
| - EN 60079-11: 2007 | EN 60079-18: 2004 |                  |
- (10) If the symbol "X" is placed after the certificate number, it indicates that the equipment or protective system is subject to special conditions for safe use specified in the schedule to 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 this Directive may 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 protective system shall include the following indications:
-  II 2 G / Ex mb e ia [px] [ia] IIC T4 Gb

Colfontaine, the 28.01.2013.

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Marcel LAMBERT,  
Director.

This certificate may only be reproduced in its entirety and without any change, schedule included



(13)

## SCHEDULE

(14)

### EC TYPE EXAMINATION CERTIFICATE N<sup>R</sup> ISSeP13ATEX003

(15) Description of the equipment or protective system

- Large Format Screen Enclosures.
- The enclosures are made of stainless steel sheets.
- The enclosures are pressurized.
- The purge and the pressurization are monitored by a system E.L.B. of type Ex px System F-350. Pressurization is of type « Leakage compensation ».
- To insure the temperature class T4, the maximum dissipated power inside the enclosure will be of maximum 800 W.
- Ambient temperature range:  $-15\text{ °C} \leq T_a \leq +35\text{ °C}$ .
- Enclosures are provided with blank gland plate.

#### Marking

- Name and address of the manufacturer (or his registered trade mark).
- EC marking (Refer to Annex X, clause A, of ATEX Directive 94/9/EC).
- Manufacturer's type identification.
- Serial number.
- Year of manufacture.
- Indication of the testing station followed by the reference of the certificate.
- Specific marking of explosion protection:  $\text{Ex}$  II 2 G
- Code: Ex mb e ia [px] [ia] IIC T4 Gb
- Ambient temperature range:  $-10\text{ °C} \leq T_a \leq +35\text{ °C}$
- Minimum quantity of protective gas:
  - minimum flow rate: 85 l/min
  - minimum duration: 70 min
- Minimum overpressure: 100 Pa  
Maximum overpressure: 400 Pa
- Minimum and maximum supply pressure to the pressurization system.
- Maximum leakage rate:  $\leq 0.6\text{ Nm}^3/\text{h}$  at 500 Pa
- Warnings: « Pressurized enclosure »
- Marking normally required by the standards of construction of the electrical apparatus.

#### Routine verifications and tests: (Clause 27 of EN 60079-0)

- The manufacturer shall make the routine verifications and tests necessary to ensure that the electrical apparatus produced complies with the apparatus specification in accordance with the requirements of the standard EN 60079-0.
- He shall also perform the routine tests 17.1 and 17.2 of the standard EN 60079-2 (functional tests and leakage test).

#### Eventual prescriptions

According to the Notice «Operating Information and Start-Up Procedure».

## SCHEDULE

### EC TYPE EXAMINATION CERTIFICATE N<sup>R</sup> ISSeP13ATEX003

(16) Report N° 12123 completed by 8 documents.

(17) Special condition for safe use

The flow rate of protective gas shall be limited to 1.5 Nm<sup>3</sup>/h at the inlet of the pressurized enclosure and the pressure shall be limited to 500 Pa (5 mbar) inside the enclosure.

(18) Essential Health and Safety Requirements

The Essential Health and Safety Requirements are covered by:

- The conformity to the standards listed at (9).
- All safety measures taken by the manufacturer and described in the documentation listed at (16).