



(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: **KEMA 01ATEX2109**
- (4) Equipment or protective system: **Signal, Control and Distribution Boxes**  
**Type ASSEMBL-Y**
- (5) Manufacturer: **Ysebaert N.V.**
- (6) Address: **Koralenhoeve 13, 2160 Wommelgem, Belgium**
- (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) KEMA Quality B.V., notified body number 0344 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 no. 2090883.

- (9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
- |                          |                   |                          |
|--------------------------|-------------------|--------------------------|
| EN 50014 : 1997 + A1, A2 | EN 50019 : 2000   | EN 50281-1-1 : 1998 + A1 |
| EN 50020 : 2002          | EN 50284 : 1999   |                          |
| EN 60079-0 : 2004        | EN 60079-7 : 2003 | EN 60079-26 : 2005       |
| EN 61241-0 : 2004        | EN 61241-1 : 2005 | EN 61241-11 : 1999       |
- (10) If the sign "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 according 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 protective system shall include the following:

|  |             |  |    |
|--|-------------|--|----|
|  | II 2 G/D    | (E)Ex e . . . II . . . T . . .<br>T . . . °C IP6X      | or |
|  | II 2(1) G/D | (E)Ex e . . . [ia] II . . . T . . .<br>T . . . °C IP6X | or |
|  | II 1 G/D    | (E)Ex ia II . . . T . . .<br>T . . . °C IP6X           | or |
|  | II 2 G/D    | (E)Ex ib II . . . T . . .<br>T . . . °C IP6X           |    |

Arnhem, 16 March 2006  
KEMA Quality B.V.

T. Pijsker  
Certification Manager

\* This Certificate may only be reproduced in its entirety and without any change

## SCHEDULE

(13)

(14)

**to EC-Type Examination Certificate KEMA 01ATEX2109**

(15) **Description**

Signal, Control and Distribution Boxes Type ASSEMBL-Y, for fixed or mobile installation, consisting of a metal or plastic enclosure in type of protection increased safety "e", for mounting of separately certified built-in components, e.g. switchgear, control gear, measuring instruments, actuator elements, indicator lights and inspection windows.

**Marking / type of protection**

Apart from the marking required by Directive 94/9/EC, the equipment is marked as required by the standards used for the assessment. Therefore, the marking "EEx" is applied based on compliance with EN 50014. Alternatively, the marking "Ex" is applied based on compliance with EN 60079-0. The marking is completed by using the codes "d", "q", "m", "[ia]", "[ib]", as applicable, depending on the built-in apparatus and components. For intrinsically safe circuits, the area for the terminals is marked, e.g. by a light blue colour.

**Ambient temperature range and temperature class**

For application in areas endangered by the presence of flammable gas, the temperature class of the equipment is based on the power dissipation of the equipment and components mounted in the enclosure. The lowest temperature class is normative.

For application in areas endangered by the presence of combustible dust, the maximum surface temperature of the enclosure  $T_{\text{...}} \text{ } ^\circ\text{C}$  according to EN 50281-1-1 / IEC 61241-1 is related to the maximum ambient temperature as specified on the box.

The standard ambient temperature range is  $-20 \text{ } ^\circ\text{C} \dots +40 \text{ } ^\circ\text{C}$ . Any other range is considered as "special", in which case the range is marked on the box.

**Technical data**

The data are depending on the built-in components and equipment, and are to be taken from the applicable certificates and manufacturers data.

|  |                          |
|--|--------------------------|
| Rated voltage                                | max. 15 kV               |
| Rated current                                | max. 500 A               |
| Rated conductor cross-section                | max. 240 mm <sup>2</sup> |
| Rated cross-section of protective conductors | max. 120 mm <sup>2</sup> |

Degree of protection min. IP 54 (gas) or IP 6X (dust) according to EN 60529

**Installation instructions**

The operating instructions as provided by the manufacturer shall be followed in detail to assure proper and safe operation of the equipment.

**Routine tests**

Each Signal-, Control- and Distribution Box which is ready for use, shall be submitted to routine tests according to EN 50019 / EN 60079-7 and/or EN 50020 / EN 60079-11 as applicable, using the applicable test voltage and test time, without breakdown.

## SCHEDULE

(13)

(14)

to EC-Type Examination Certificate KEMA 01ATEX2109

(16) **Report**

KEMA No. 2090883.

(17) **Special conditions for safe use**

None.

(18) **Essential Health and Safety Requirements**

Covered by the standards listed at (9).

(19) **Test documentation**

As listed in Test Report No. 2090883.