



# (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 02ATEX1238 X
- (4) Equipment or protective system: Temperature Sensor, types LEX 25 A, LEX 25 B and LEX 25 C
- (5) Manufacturer: Thermo-Electra B.V.
- (6) Address: Weteringweg 10, 2641 KM Pijnacker, the Netherlands
- (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. 2008769.

(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN 50014: 1997 EN 50020: 2002 EN 50284: 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 1 G EEx ia IIC T4...T6

Arnhem, 1 April 2003 KEMA Quality B.V.

T. Pijpker

**Certification Manager** 



<sup>&</sup>lt;sup>®</sup> This Certificate may only be reproduced in its entirety and without any change



## (13) SCHEDULE

## (14) to EC-Type Examination Certificate KEMA 02ATEX1238 X

## (15) Description

The Temperature Sensor types LEX 25 A, LEX 25 B and LEX 25 C consist of a sensor tube with thermocouples or Pt elements. Type LEX 25 A has a weatherproof connection head with swing type cover. Type LEX 25 B has a weatherproof connection head with a screw on cover. Type LEX 25 C has a permanently unterminated cable attached to it.

Ambient temperature range: -40 °C ...+80 °C

### Electrical data

Supply circuit.....

in type of explosion protection intrinsic safety EEx ia IIC, only for connection to certified intrinsically safe circuits, with the following maximum values:

> U<sub>i</sub> = 30 V I<sub>i</sub> = 75 mA P<sub>i</sub> = 150 mW

The effective internal capacitance C<sub>i</sub> and inductance L<sub>i</sub> are negligibly small.

For connection of an intrinsically safe measuring transmitter to the measurement input the electrical data as mentioned in the applicable EC-Type Examination Certificate must be complied with.

## Installation instructions

The connection terminals or the cable ends of a temperature sensor without connection head must be mounted in an enclosure, providing a degree of protection of at least IP 20 per EN 50029.

#### Routine tests

None.

### (16) Report

KEMA No. 2008769.

### (17) Special conditions for safe use

If the mounting head of the Temperature Sensor is made of aluminium and it is mounted in area where the use of category 1 G apparatus is required, the head must be installed such, that, even in the event of rare incidents, ignition sources due to impact and friction sparks are excluded.

## (18) Essential Health and Safety Requirements

Covered by the standards listed at (9).

Issue 2 15.03.2005



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## (19) Test documentation

1. Certificate of Conformity KEMA No. Ex-98.D.1559 X

dated

2. Drawing No. VK.801408-001, rev. 3 TE-03022003, rev. 2

12.03.2003 12.03.2003