KEMA

(1) # EC-TYPE EXAMINATION CERTIFICATE

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

(3) EC-Type Examination Certificate Number: **KEMA 06ATEX0294 X** Issue Number: **1**

(4) Equipment: **Transmitter Type X62T and Type X62U**

(5) Manufacturer: **Exalon Delft B.V.**

(6) Address: **Rotterdamseweg 183c, 2629 HD Delft, The Netherlands**

(7) This equipment 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 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 test report number 2082858.

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

EN 60079-0 : 2004 **EN 50020 : 2002** **EN 60079-26 : 2004**

(10) If the sign "X" is placed after the certificate number, it indicates that the equipment 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 according to the Directive 94/9/EC. Further requirements of the directive apply to the manufacturing process and supply of this equipment. These are not covered by this certificate.

(12) The marking of the equipment shall include the following:

II 2(1) G **Ex ia IIB T4**

This certificate is issued on 6 February 2007 and, as far as applicable, shall be revised before the date of cessation of presumption of conformity of (one of) the standards mentioned above as communicated in the Official Journal of the European Union.

KEMA Quality B.V.

P.T. van Nijen
Certification Manager

PRODUCTS RvAC 001

KEMA Quality B.V. Utrechtseweg 310, 6812 AR Arnhem P.O. Box 5185, 6802 ED Arnhem The Netherlands
T +31 26 3 56 20 00 F +31 26 3 52 58 00 customer@kema.com www.kema.com Registered Arnhem 09085396

(13) # SCHEDULE

(14) **to EC-Type Examination Certificate KEMA 06ATEX0294 X Issue No. 1**

(15) **Description**

Transmitter Type X62T and Type X62U convert the signals of various temperature and capacitive sensors into a digital signal.
Type X62T is provided with an enclosure with a degree of protection of at least IP44.
Type X62U is a version without enclosure.

Ambient temperature range: -40 °C ... +70 °C.

Electrical data

Supply / Output circuit (terminal CN1):
in type of protection intrinsic safety Ex ia IIB, only for connection to a certified intrinsically safe circuit, with the following maximum values:
U_i = 30 V; I_i = 270 mA; P_i = 1,2 W; C_i = 5 nF; L_i = 0

Sensor / Input circuit (terminal CN3; circuits combined):
in type of protection intrinsic safety Ex ia IIB, with the following maximum values:
U_o = 5,9 V; I_o = 62 mA; P_o = 92 mW; C_o= 900 µF; L_o = 30 mH

The Supply / Output circuit is infallible galvanically isolated from the Sensor / Input circuit.

Installation instructions

The transmitter may be installed into hazardous locations where category 2 equipment is required.
The sensor / input circuits may extend into hazardous locations in which category 1 equipment is required.

(16) **Test Report**

KEMA No. 2082858.

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

Type X62U shall be provided with an enclosure, suitable for the environment it will be used in, with a minimum degree of protection of IP20 in accordance with EN 60529.
When the enclosure is of conductive material, the circuits shall be separated by at least 3 mm from the walls of the enclosure.

If other intrinsically safe circuits are in that same enclosure, they shall be kept separated from the circuits and terminations of the X62U, taking into account clause 6.4 of EN 50020.

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

Assured by compliance with the standards listed at (9).

(19) **Test documentation**

As listed in Test Report No. 2082858.