

CERTIFICATE

(1) EC-Type Examination

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

(3) EC-Type Examination Certificate Number: **KEMA 06ATEX2153 X** Issue Number: **3**

(4) Equipment: **DM-700 Toxic Gas or Oxygen Deficiency Sensor; PI-700 VOC Gas Sensor**

(5) Manufacturer: **Detcon Inc.**

(6) Address: **4055 Technology Forest Drive, The Woodlands, TX 77381, USA**

(7) This equipment and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

(8) DEKRA Certification 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 213019600, issue 2.

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

EN 60079-0 : 2009

EN 60079-1 : 2007

EN 60079-11 : 2012

(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 G Ex d ib IIC T4 Gb

This certificate is issued on 11 October 2013 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.

DEKRA Certification B.V.

M. Erdhuizen
Certification Manager

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(13) **SCHEDULE**

(14) **to EC-Type Examination Certificate KEMA 06ATEX2153 X**

Issue No. 3

(15) **Description**

DM-700 Toxic Gas or Oxygen Deficiency Sensor, for fixed installation, designed to detect and monitor toxic gases or O₂ concentration in air.

Ambient temperature range -40 °C to +50 °C.

PI-700 VOC Gas Sensor, for fixed installation, designed to detect and monitor a wide range of VOC and toxic gases in air.

Ambient temperature range -20 °C to +50 °C.

Electrical data

Input rating: 11 to 30 Vdc, 50 mA max for DM-700 and 65 mA for PI-700.

Output: 4 – 20 mA, RS-485 ModBus.

U_m = 250 V

Installation instructions

The instructions provided with the equipment shall be followed in detail to assure safe operation.

(16) **Test Report**

No. 213019600, issue 2.

(17) **Specific conditions of use**

The sensor shall be installed on a metallic grounded structure in a manner that the final assembly assures that the sensor enclosure is bonded to ground.

The sensor's common plane wire (black) shall be connected to ground in the final assembly.

Proper precautions shall be taken during installation, operation, maintenance and service of the product in order to avoid the build-up of static charges on the plastic splashguard.

The screws holding down the retaining plate are special fasteners of type: stainless steel, Philips Pan-head Machine screws, M3 x 0.5 6g6h having yield strength greater than 40.000 PSI.

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

Covered by the standards listed at (9).

(19) **Test documentation**

As listed in Test Report No. 213019600, issue 2.