

(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 03ATEX2584** Issue Number: **2**

(4) Equipment: **Pressure Switch Model H3**

(5) Manufacturer: **Dwyer Instruments, Inc.**

(6) Address: **102 Indiana Highway, Michigan City, Indiana 46360, USA**

(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 2088367.

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

EN 60079-0 : 2004

EN 60079-1 : 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 G Ex d IIC T5 or T6

This certificate is issued on 24 October 2006 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.



T. Pijpker
Certification Manager

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(13) **SCHEDULE**

(14) **to EC-Type Examination Certificate KEMA 03ATEX2584** **Issue No. 2**

(15) **Description**

The Pressure Switch Model H3 is used to indicate if a system differential pressure is present. The housing and cover are made of aluminium. The thread plate can be of different metals. The housing can be equipped with one or two switches.

Ambient temperature range: -20 °C ... +75 °C for T6
-20 °C ... +90 °C for T5

Electrical data

Voltage max. 250 V
Current max. 5A

Installation instructions

Cable connection

The cable entry device shall be of a certified flameproof type, suitable for the conditions of use and correctly installed.

For ambient temperatures over 70 °C, cables and cable glands suitable for at least 90 °C shall be used.

Conduit connection

An Ex d certified sealing device such as a conduit seal with setting compound shall be provided immediately to the entrance of the valve housing.

For ambient temperatures over 70 °C, the wiring and setting compound in the conduit seal shall be suitable for at least 90 °C.

Routine tests

Each pressure switch enclosure shall be submitted to an overpressure test according to Clause 16 of EN 60079-1 using a test pressure of 14 bar for at least 10 seconds.

(16) **Test Report**

KEMA No. 2088367.

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

None.

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

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

(19) **Test documentation**

As listed in Test Report No. 2088367.