

(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 04ATEX2186**
- (4) Equipment or protective system: **Pressure Switch Series SA1100**
- (5) Manufacturer: **Dwyer Instruments, Inc.**
- (6) Address: **102 Indiana Highway, 212 Michigan City, IN 46360, USA**
- (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. 2075522.

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

EN 50014 : 1997 + A1, A2

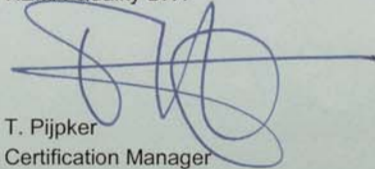
EN 50018 : 2000

- (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 EEx d IIC T6

Arnhem, 28 July 2004
KEMA Quality B.V.



T. Pijpker
Certification Manager

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SCHEDULE

- (13)
- (14) **to EC-Type Examination Certificate KEMA 04ATEX2186**

(15) **Description**

The Pressure Switch Series SA1100 is used to switch in response to increasing or decreasing pressure of gasses or liquids.

Ambient temperature range: -20 °C ... +75 °C

Electrical data

Switch ratings	U_{max}	= 125, 250 or 480 V ac,
	U_{max}	= 125 or 250 V dc
	I_{max}	= 15 A ac,
	I_{max}	= 1/2 A dc at 125 V dc resistive or 1/4 A dc at 250 V dc resistive

Installation instructions

Cable connection

The cable entry device shall be certified in type of explosion protection flameproof enclosure "d", suitable for the conditions of use and correctly installed and shall have a rating of at least 80 °C.

Conduit connection

An EEx d certified sealing device such as a conduit seal with setting compound shall be provided immediately to the entrance of the housing.
The wiring and setting compound in the conduit seal shall be suitable for at least 80 °C.

Routine tests

Each pressure switch shall be submitted to a routine test according to Clause 16 of EN 50018 using a test pressure of 12 bar for at least 10 seconds.

(16) **Report**

KEMA No. 2075522.

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

None.

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

Covered by the standards listed at (9).

(19) **Test documentation**

	<u>dated</u>
Drawing No. 89-001073-00, rev. 2	03.07.2003
89-001073-02, rev. 2	03.07.2003
89-001073-03	15.06.2004
89-001073-04	15.06.2004
89-001073-05	15.06.2004
89-001073-06	21.06.2004
89-001073-07	28.06.2004