



(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 03ATEX2402**
- (4) Equipment or protective system: **Flameproof Pressure Switches Type 1950G-...-....**
- (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. 2030051.

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

**EN 50014 : 1997**

**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 IIB + H<sub>2</sub> T6 or T5.**

Arnhem, 20 August 2003  
KEMA Quality B.V.

T. Pijpker  
Certification Manager

\* This Certificate may only be reproduced in its entirety and without any change



## SCHEDULE

(13)

(14)

### to EC-Type Examination Certificate KEMA 03ATEX2402

(15) **Description**

The Flameproof Pressure Switches Type 1950G-...-... are differential pressure-operated switches in a die cast aluminium enclosure. The diaphragm and the switch are located in separate partitions of the unit. They are separated by a continuous metal wall. The movement of the diaphragm is magnetically transferred through this wall to the switch.

Maximum ambient temperature range -40 °C ... +60 °C.

**Electrical data**

Power supply ..... 12 Vdc, 24 Vdc, 120 Vac or 240 Vac for temperature class T6 or  
 24 Vac for temperature class T5.  
 Electrical rating..... 10 A -120 Vac, 240 Vac, 28 Vdc resistive or  
 50 mA – 125 Vdc resistive.

**Installation instructions**

Cables and cable glands suitable for a temperature of at least 95 °C shall be used.

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

**Routine tests**

None.

(16) **Report**

KEMA No. 2030051.

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

None

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

Covered by the standards listed at (9).

(19) **Test documentation**

1. Certificate of Conformity DEMKO No. 97E.122525.

dated

2	Drawing No. 28-001176-21, rev. 3	29.05.2003
	28-001176-22, rev. 2	29.05.2003
	28-001176-23, rev. 2	29.05.2003
	28-001176-24, rev. 2	29.05.2003
	28-001176-26, rev. 2	29.05.2003
	28-001176-27, rev. 6	29.05.2003
	28-001176-28	21.04.2003
	28-001176-33, rev. 2	29.05.2003
	28-001176-34, rev. 4	30.05.2003