

(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 02ATEX2186** Issue Number: **3**

(4) Equipment: **BETA Pressure and Temperature Switches Series V.- and W.-**

(5) Manufacturer: **BETA B.V.**

(6) Address: **Verrijn Stuartlaan 22, 2288 EL Rijswijk, 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 2094747.

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

EN 60079-0 : 2006
EN 61241-0 : 2006

EN 60079-1 : 2004
EN 61241-1 : 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 T6 or Ex d IIC T5
II 2 D Ex tD A21 IP 6X T100 °C

This certificate is issued on 12 November 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.



H.J.G de Wild
Certification Manager





(13) **SCHEDULE**

(14) **to EC-Type Examination Certificate KEMA 02ATEX2186**

Issue No. 3

(15) **Description**

The Pressure, Differential Pressure and Temperature Switches Series V.- and W.- comprises a micro-switch assembly in which one or two micro-switches are located. The switch housing is mounted in a box from cast iron for series V.- and from aluminium alloy or stainless steel casting for series W.-, provided with a terminal assembly. The enclosure of the series V.- incorporates one or two cable entry holes each on the horizontal centre line. The enclosure of the series W.- incorporates one or two cable entry holes each 45 ° to the vertical centre line. The micro-switches are mechanically linked to the process-sensing element via an intermediate enclosure body.

Ambient temperature range -40 °C to +70 °C for T6
 -40 °C to +80 °C for T5 / T100 °C

The enclosure provides a degree of protection of IP65 (Series V.-) or IP66 (Series W.-) in accordance with EN 60529.

Electrical data

Voltage 480 Vac / 125 Vdc
Current max. 10A / 5A

Installation instructions

The cable glands and blanking elements shall be in type of protection flameproof enclose "d", suitable for the conditions of use and correctly installed. The devices shall provide a degree of protection of IP6X.
For temperatures under rated conditions higher than 70 °C at the cable point, suitable heat resistant cables and cable glands shall be used.

Routine tests

None.

(16) **Test Report**

KEMA No. 2094747.

(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. 2094747.