

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 02ATEX2187** Issue Number: **5**

(4) Equipment: **BETA Pressure and Temperature Switches, Series Z.-**

(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) 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 215450900/3.

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

EN 60079-0 : 2006

EN 60079-1 : 2007

EN 60079-7 : 2007

(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 e IIC T6

This certificate is issued on 22 June 2012 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.

C.G. van Es
Certification Manager

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° Integral publication of this certificate and adjoining reports is allowed. This Certificate may only be reproduced in its entirety and without any change.



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(13) **SCHEDULE**

(14) **to EC-Type Examination Certificate KEMA 02ATEX2187**

Issue No. 5

(15) **Description**

The BETA Pressure and Temperature Switches series Z.- comprise a common micro-switch and a terminal housing manufactured from aluminium alloy or stainless steel. They are fitted with a range of pressure sensing elements and associated linkages with a direct mount or remote capillary type temperature sensing element.

Optionally a resistor can be connected across any two contacts of each switch. The Ex e housing consists of a rectangular base and cover.

The base unit has an integral cast sensing element mounting boss and cable entry point.

The housing may be drilled to accept either of two sizes of venting valves, selection being dependent on the type of sensing element fitted to the enclosure.

The venting valve is spring loaded and designed to limit the possible pressure increase within the switch to 2 psi within stated operational limits.

The internal equipment consists of a certified Ex d IIC micro-switch and a certified Ex e II terminal block.

Ambient temperature range: -55 °C to +65 °C.

Electrical data

Voltage: max. 250 V

Current: max. 5 A ac / 0,25 A dc

Installation instructions

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

(16) **Test Report**

No. 215450900/3.

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

None.

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

Covered by the standards listed at (9).

(19) **Test documentation**

As listed in Test Report No. 215450900/3.