

## (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 02ATEX2186 X**
- (4) Equipment or protective system: **BETA Pressure and Temperature Switches Series V.- and W.-**
- (5) Manufacturer: **BETA B.V.**
- (6) Address: **Verrijn Stuartlaan 22-24, 2288 EL Rijswijk, The Netherlands**
- (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. 2021817.

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

**EN 50014 : 1997**

**EN 50018 : 2000**

**EN 50281-1-1 : 1998**

- (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 or EEx d IIC T5**  
**II 2 D T 100 °C**

Arnhem, 6 November 2002  
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 02ATEX2186 X****(15) Description**

The BETA Pressure and Temperature Switches Series V.- and W.- comprises a micro-switch assembly in which one or two micro-switches are located. Optional a resistor can be connected across any two contacts of each switch. The switch housing is mounted in a flameproof terminal box from aluminium alloy or cast iron and 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 that contains a venting valve designed to limit the possible pressure increase within the switch to 2 psi within stated operational limits.

Ambient temperature range : -20 °C to +40 °C for T6  
-20 °C to +80 °C for T5

**Electrical data**

Voltage ..... 480 Vac / 125 Vdc  
Current ..... max. 20 A / 5 A

**Installation instruction**

The cable entry devices and closing elements shall be in type of explosion protection flameproof enclosure "d", suitable for the conditions of use and correctly installed.

**(16) Report**

KEMA No. 2021817.

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

The relation between the ambient temperature range and temperature class is listed at (15)

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

Covered by the standards listed at (9).

**(19) Test documentation**

1. Certificate of Conformity BAS No Ex801262

dated

2. Drawing No. 30.09.66, rev. A

21.08.2002

**AMENDMENT 1**

to EC-Type Examination Certificate KEMA 02ATEX2186 X

Manufacturer: BETA B.V.

Address: Verrijn Stuartlaan 22-24, 2288 EL Rijswijk, The Netherlands

**Description**

The ambient temperature range of the BETA Pressure and Temperature Switches Series V.- and W. is extended to -40 °C ... + 40 °C for T6 and -40 °C ... + 80 °C for T5.

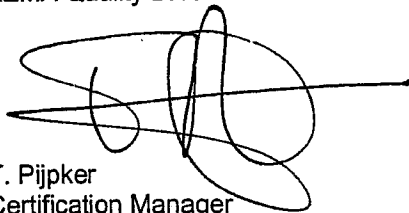
All other data remain unchanged.

**Test documentation**signed

Description

29.03.2004

Arnhem, 29 April 2004  
KEMA Quality B.V.



T. Pijpker  
Certification Manager