



(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 07ATEX0080** Issue Number: **1**

(4) Equipment: **Piezoelectric Velocity Transducer Type TM0793V and Type TM0796V, Piezoelectric Accelerometer Type TM0782A and Type TM0786A**

(5) Manufacturer: **ProvibTech, Inc.**

(6) Address: **11011 Brooklet Drive, Suite 360, Houston, Texas 77099, USA**

(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 2104877.

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

EN 60079-0 : 2004

EN 60079-11 : 2007

EN 60079-26 : 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 1 G Ex ia IIC T4

This certificate is issued on 3 September 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.

P.T. van Nijen
Certification Manager



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(13) **SCHEDULE**

(14) **to EC-Type Examination Certificate KEMA 07ATEX0080**

Issue No. 1

(15) **Description**

The Piezoelectric Velocity Transducer Type TM0793V and Type TM0796V and Piezoelectric Accelerometer Type TM0782A and Type TM0786A are used for the vibration measurement of machine bearing housings.

The Piezoelectric Velocity Transducer Type TM0793V and Type TM0796V provide dynamic measurement of velocity or displacement.

The Piezoelectric Accelerometer Type TM0782A and Type TM0786A provide dynamic measurement of acceleration, velocity or displacement.



Ambient temperature range -45 °C to +100 °C.

Electrical data

Type TM0793V and Type TM0796V

Supply and output circuit:

In type of protection intrinsic safety Ex ia IIC, only for connection to a certified intrinsically safe circuit, with following maximum values:

$U_i = 30 \text{ V}$; $I_i = 120 \text{ mA}$; $P_i = 0,9 \text{ W}$; $C_i = 45,7 \text{ nF}$; $L_i = 0 \text{ mH}$.

Type TM0782A and Type TM0786A

Supply and output circuit:

In type of protection intrinsic safety Ex ia IIC, only for connection to a certified intrinsically safe circuit, with following maximum values:

$U_i = 30 \text{ V}$; $I_i = 120 \text{ mA}$; $P_i = 0,9 \text{ W}$; $C_i = 5 \text{ nF}$; $L_i = 0 \text{ mH}$.

(16) **Test Report**

KEMA No. 2104877.

(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. 2104877.