



(1) EC-TYPE-EXAMINATION CERTIFICATE (Translation)

(2) Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres - **Directive 94/9/EC**



(3) EC-type-examination Certificate Number:

PTB 03 ATEX 2108

(4) Equipment: Temperature sensor, type FMT 131-...

(5) Manufacturer: Endress + Hauser GmbH + Co.KG

(6) Address: Hauptstrasse 1, 79689 Maulburg, Germany,

(7) This equipment and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.

(8) The Physikalisch-Technische Bundesanstalt, notified body No. 0102 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 the confidential report PTB Ex 03-23039.

(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
EN 50014:1997 + A1 + A2 **EN 50028:1987**

(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 in accordance 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 EEx m II T6 or T5

Zertifizierungsstelle Explosionsschutz

By order:

Dr.-Ing. U. Johannsmeyer
Regierungsdirektor



Braunschweig, August 26, 2003

(13)

SCHEDULE

(14)

EC-TYPE-EXAMINATION CERTIFICATE PTB 03 ATEX 2108

(15) Description of equipment

The temperature sensor, type FMT 131-.. is used to determine the ambient temperature. A possible field of application is, e.g., the ultrasonic metrology for the measurement of temperatures and so for the compensation of the temperature-dependent propagation time of sonic pulses.

Electrical data

Supply

$U_i = 5,5 \text{ V}$

Temperature class: T6
Temperature class: T5
Degree of protection: IP65

Ambient temperature: max. 60 °C
Ambient temperature: max. 80 °C

(16) Test report PTB Ex 03-23039

(17) Special conditions for safe use

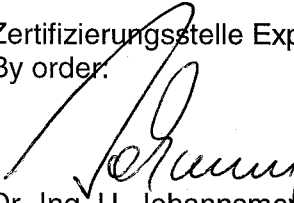
none

(18) Essential health and safety requirements

met by compliance with the standards mentioned above

Zertifizierungsstelle Explosionsschutz
By order:

Braunschweig, August 26, 2003


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