

BUREAU  
VERITAS

**Translation**

- (1) EC type approval test certificate
- (2) Equipment and protective systems intended for use in potentially explosive atmospheres  
-Directive 94/9/EC
- (3) EC type approval test certificate number  
EPS 10 ATEX 1 242 X
- (4) Device: Explosion-protected temperature gauge Ex-MP4 a
- (5) Manufacturer: ecom instruments GmbH
- (6) Address: Industriestrasse 2, 97959 Assamstadt, Germany
- (7) The construction of this device and the various permissible details are specified in the appendix to this type approval test certificate.
- (8) As nominated body no. 2004 in accordance with article 9 of the EC Council Directive dated 23 March 1994 (94/9/EC), Bureau Veritas Consumer Product Services GmbH certifies conformance with the basic health and safety requirements for the design and construction of devices and protective systems for intended use within explosive areas in accordance with appendix II of the Directive.
- The results of the examination are specified in confidential test report 09TH0476.
- (9) The basic health and safety requirements are fulfilled through compliance with:
- EN 60079-0:2006      EN 60079-11 :2007  
EN 60079-28:2007
- (10) If the certificate number is followed by an "X", then this indicates that special conditions exist for the safe operation of the device. These special conditions are contained in the attachment to this certificate.
- (11) This EC type approval test certificate only relates to the design and structure of the specified device in accordance with Directive 94/9/EC. Further requirements contained in this directive apply to the production and marketing of this device.
- (12) The designation of the device must contain the following details:

⊕ II 2G Ex ia op is IIC T4 0°C < Ta < 50°C

Certification body for explosion protection

Türkheim, 26.02.2010

A. Hänchen

Certificates without a signature are not valid. This certificate may only be circulated without alteration. Extracts or alterations are subject to approval by Bureau Veritas Consumer Product Services GmbH. This certificate is administered internally under the following number: 10-016  
Bureau Veritas Consumer Product Services GmbH, Businesspark A96, 86842 Türkheim, Germany

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(13) Appendix

(14) EC type approval test certificate EPS 10 ATEX 1 242 x

(15) Description of the device:

Temperature gauge for non-contact measurement of surface temperatures. The sensor system records emitted, reflected and transmitted thermal radiation which is focused onto a detector. A laser marks the object being measured. Measurements may also be conducted in Zone 0 areas. The permitted ambient temperature range is  $0^{\circ}\text{C} < T_a < 50^{\circ}\text{C}$ .

Electrical data:

Hand-held battery-operated device

With the maximum values (internal):  
 $U_0 = 9.9 \text{ V}$   
 $I_0 = 110 \text{ mA}$  (after the current limiting element)  
 $P_0 = 1.066 \text{ W}$

(16) Test report: 09TH0476

(17) Special conditions:

Only the primary batteries specified in the operating instructions may be used. The battery should only be exchanged outside the Ex-area. The device should only be operated in the Ex-area while situated in the designated leather case. If a measurement in Zone 0 is intended, the device must be secured with the supplied wrist strap.

(18) Basic health and safety requirements:

Covered by standards.

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