



**BUREAU
VERITAS**



(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

EPS 10 ATEX 1 242 X

Revision: 2

- (4) Equipment: Explosionsgeschütztes Temperaturmessgerät Ex-MP4 a
- (5) Manufacturer: ecom instruments GmbH
- (6) Address: Industriestrasse 2, 97959 Assamstadt, Germany
- (7) This equipment and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.
- (8) Bureau Veritas Consumer Products Services Germany GmbH, Notified Body No. 2004 in accordance with Article 9 of the Council Directive 94/9/EC of March 23rd 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 of the Directive. The examination and test results are recorded in the confidential report 09TH0476.
- (9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN 60079-0:2012+A11:2013 EN 60079-11:2012

EN 60079-28:2007

- (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 and the construction of the specified equipment in accordance with Directive 94/9/EC. Further requirements of this Directive apply to the manufacture and supply of this equipment.
- (12) The marking of the equipment shall include the following:



II 2G Ex ia op is IIC T4

0 °C < Ta < 50 °C

Certification department of explosion protection

Türkheim, September 10, 2014


D. Zitzmann



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EPS 10 ATEX 1 242 X Rev. 2





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(13)

Annexe

(14) **EC-Type Examination Certificate EPS 10 ATEX 1 242 X**

(15) Description of equipment:

Temperature measuring device for contactless measurement of surface temperatures. The sensor detects emitted, reflected and transmitted radiation, which is focussed on a detector. A laser marks the measured sample. Measuring into zone 0 is permitted. The permitted ambient temperature range is between $0^{\circ}\text{C} < t_a < 50^{\circ}\text{C}$.

Electrical data:

Hand-held battery powered device

With maximum values (internally): $U_0 = 9.9\text{ V}$

$I_0 = 110\text{ mA}$ (behind current-limitation)

$P_0 = 1.066\text{ W}$

(16) Test report: 09TH0476

(17) Special conditions for safe use:

Only the primary batteries as described in the user manual are permitted. The battery is only allowed to be changed outside of the hazardous area. The device is only allowed to be used in the hazardous areas using the provided leather case. If a measurement into zone 0 is planned, the device has to be secured with the hand strap.

(18) Essential health and safety requirements:

Met by standards.

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