



**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 12 ATEX 1 482 X

(4) **Equipment:** Intrinsically Safe Headset, type ComCom Ex

(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 Product 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 12TH0338.

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

EN 60079-0:2012

EN 60079-11:2012

(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 ib IIC T4 Gb

 II 2D Ex ib IIIC T130°C Db

Certification department of explosion protection

Türkheim, October 17, 2012



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Certificates without signature are void. This certificate is allowed to be distributed only if not modified.
Extracts or modifications must be authorized by Bureau Veritas Consumer Product Services Germany GmbH.
This certificate is internally administrated under the following number: 12-209



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(13)

Schedule

(14) **EC Type Examination Certificate EPS 12 ATEX 1 482 x**

(15) Description of equipment:

The Headset ComCom Ex consists of a combination of an earphone (speaker) and a microphone that are connected via a cable to an associated intrinsic safe receiving device. For the evaluation, the ear phone's internal resistance can be considered to be current-limiting. The ambient temperature range is
 $-20^{\circ}\text{C} \leq T_a \leq +55^{\circ}\text{C}$.

Electrical data:

Connection of the headset to an approved intrinsic safe apparatus:

Intrinsic safety data
of the Headset:

$U_i = 4,2 \text{ V}$
 $I_i = 330 \text{ mA}$
 $P_i = 0,347 \text{ W}$

$R_i = 47 \text{ Ohm}$
 $L_i = 4,0 \text{ mH}$
 $C_i = \text{negligible}$

Permissible external inductance: $L_o = 2 \text{ mH}$
Permissible external capacitance: $C_o = 4,2 \mu\text{F}$

Interconnection: The connection to the headset output of Ex-Handy 0* covered by EC-type examination EPS 11 ATEX 1 345 X is permissible.

(16) Test report: 12TH0338

(17) Special conditions for safe use:

Ambient temperature range: $-20^{\circ}\text{C} \leq T_a \leq +55^{\circ}\text{C}$

(18) Essential health and safety requirements:

Compliance with the standards mentioned above.

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