



Prüf- und Zertifizierungsstelle

ZELM Ex



(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:

**ZELM 02 ATEX 0107**

(4) Equipment: **Ex-Handy 04\***

(5) Manufacturer: **ecom instruments GmbH**

(6) Address: **D-97959 Assamstadt**

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

(8) The Prüf- und Zertifizierungsstelle ZELM Ex, notified body No. 0820 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 ZELM Ex 0610212147.

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

**EN 50 014: 1997+A1+A2**

**EN 50 020: 1994**

(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 or protective system in accordance to the Directive 94/9/EC. Further requirements of the Directive apply to the manufacturing process and supply of this equipment or protective system. These are not covered by this Certificate.


(12) The marking of the equipment shall include the following:



**II 2 G EEx ib IIC T4**

Zertifizierungsstelle **ZELM Ex**

Braunschweig, November 26, 2002

  
Dipl.-Ing. Harald Zelm



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EC-type-examination Certificates without signature and stamp are not valid. The certificates may only be circulated without alteration. Extracts or alterations are subject to approval by the Prüf- und Zertifizierungsstelle ZELM Ex. In the case of dispute, the German text shall prevail.



## SCHEDULE

(13)

(14) **EC-TYPE-EXAMINATION CERTIFICATE ZELM 02 ATEX 0107**

(15) Description of equipment

The model Ex-Handy 04\* serves as a radio-controlled link in the explosive atmosphere. Only manufacturer released accessories under defined conditions have to be used. The equipment must be charged with the associated charging set outside of the explosive atmosphere. Within the explosive atmosphere it must be weared with the associated leather case which also covers the contact strip and the charging sockets.

Electrical data

Supply circuit from a built-in battery EEx ib IIC  
The internal circuits are intrinsically safe.

interface circuit type of protection Intrinsic Safety EEx ib IIC  
For connection to the released accessories only.

maximum ambient temperature 0 °C to + 40 °C

References:

The instruction manual has to be considered.  
The equipment must only be charged outside of the explosive atmosphere with the appropriate accessories: Charging Set LGH 04, Car-Kit CARK-91, Cigarette Lighter Cable LCH-9 or Desk Charger DCH-9 respectively.  
Within the explosive atmosphere the equipment must be weared with the appropriate leather case.

(16) Report No.

ZELM Ex 0610212147

(17) Special conditions for safe use

not applicable

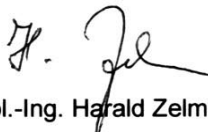
(18) Essential Health and Safety Requirements

met by standards

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