

(1) EC-TYPE-EXAMINATION CERTIFICATE

ZELM ex

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

(3) EC-TYPE-EXAMINATION CERTIFICATE Number:

ZELM 12 ATEX 0484 X

(4) Equipment: **Digital TETRAPOL Radio type TPH700 Ex**

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

(6) Address: **Industriestr. 2, 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 0341119911.

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

EN 60079-0:2009

EN 60079-11:2007

(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, 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 Ex ib IIC T4 Gb

ZELM ex

**Zertifizierungs-
stelle**

Braunschweig, 2012-04-30

Zertifizierungsstelle ZELM ex
Dipl.-Ing. Harald Zelm



Sheet 1 of 3

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. The English version is based on the German text. In the case of dispute, the German text shall prevail.

ZELM ex
Prüf- und Zertifizierungsstelle
Siekgraben 56 · D-38124 Braunschweig

(14) **EC-TYPE-EXAMINATION CERTIFICATE ZELM 12 ATEX 0484 X**(15) Description of equipment

The digital TETRAPOL radio type TPH700 Ex is a hand held device used for the wireless communication via the TETRAPOL mobile radio system or via a Bluetooth interface. The device is designated for the use inside areas of category 2, where a potential explosive gas atmosphere is present.

permissible temperature during use: $-20\text{ °C} \leq T_{\text{amb}} \leq +55\text{ °C}$

permissible temperature during charging: $0\text{ °C} \leq T_{\text{amb}} \leq +45\text{ °C}$

permissible temperature during storage:

- radio without battery pack	$-40\text{ °C} \leq T_{\text{amb}} \leq +70\text{ °C}$
- battery pack 1 month	$-20\text{ °C} \leq T_{\text{amb}} \leq +45\text{ °C}$
- battery pack 6 month	$-20\text{ °C} \leq T_{\text{amb}} \leq +35\text{ °C}$

Electrical Data

Supply from an associated built-in battery pack BLN Ex-3.
The internal circuit is intrinsically safe.

Headphone interface in type of protection Intrinsic Safety Ex ib IIC
only for connection to appropriate certified devices,
which ensures the parameters given inside the document
„Summary – Connection Values“, 500017EX03A 00G.

charging connection only for connection to the following chargers, outside the
explosion hazardous area.

- TPH700 Travel charger "PN1194*" (* = extension characters for country-specific versions)
- TPH700 Multi unit charger "HR7797*" (* = extension characters for country-specific versions)
- TPH700 Desktop charger "HR7814*" (* = extension characters for country-specific versions)
- TPH700 Cigarette- lighter charger "HR7875AA".
- TPH700 Car Kit HR7798BAA01

Schedule
to EC-Type-Examination Certificate ZELM 12 ATEX 0484 X

ZELM ex

(16) Report No.

ZELM Ex 0341119911

(17) Special conditions for safe use

1. The Headphone interface must be equipped inside the explosion hazardous area either with the associated cover or with appropriate certified accessory.
2. The TPH700Ex shall be charged only outside the explosion hazardous area with the associated chargers.
3. Only the associated battery pack of type BLN Ex-3 shall be used.
4. When exchanging the battery, or at least once a year, whichever is the shorter period, the battery housing shall be controlled against pollution. If pollution is detectable, the manufacturers must be contacted.
5. The battery pack shall be changed only outside the explosion hazardous area.
6. The user manual must be observed.

(18) Essential Health and Safety Requirements

met by standards

Braunschweig, 2012-04-30

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Sheet 3 of 3

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