



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 0084

(4) Equipment: **Pocket-PC type Ex-IT 700**

(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 0330112120.

(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 ia IIC T4

Zertifizierungsstelle **ZELM Ex**


Dipl.-Ing. Harald Zelm



Braunschweig, May 8, 2002

Sheet 1/2

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.



I, Michelène L'Ortije-Vermeulen BA, sworn translator in the English, German and Dutch language, residing in St. Odiliënberg, sworn in at the District Court of Roermond, herewith confirm and certify that the attached English translation is a literal and accurate translation of the German text put before me.

Ich, Michelène L'Ortije-Vermeulen BA, wohnhaft in St. Odiliënberg, vom Landgericht in Roermond vereidigte Übersetzerin für die deutsche, englische und niederländische Sprache, erkläre hiermit, daß die angeheftete englische Übersetzung eine wortgetreue und genaue Übersetzung des mir vorgelegenen deutschen Textes ist.

St. Odiliënberg, June 17th 2002

St. Odiliënberg, den 17. Juni 2002

H.M.E.M. L'Ortije-Vermeulen BA,
sworn translator in the English,
German and Dutch languages, residing
in St. Odiliënberg (NL), sworn in at the
District Court of Roermond.

M. L'Ortije-Vermeulen



(1) EC – TYPE EXAMINATION CERTIFICATE

- (2) Equipment and protective systems intended for use according to certain regulations in potentially explosive atmospheres – **Directive 94/9/EC**
- (3) EC Type examination certificate number: **IBExU02ATEX 1073 X**
- (4) Equipment or protective system: Pocket-PC Ex-IT 700**
- (5) Manufacturer: ecom instruments GmbH
- (6) Address: Industriestrasse 2
D-97959 Assamstadt
- (7) The type of design of this equipment or protective system as well as the various permissible versions are specified in the appendix to this type examination certificate.
- (8) IBExU, Institute for Safety Technology, as NOTIFIED BODY AUTHORITY no. 0637 according to Article 9 of the Directive of the Council of the European Union dated March 23rd, 1994 (94/9/EC), hereby certifies the fulfilment of the Essential Health and Safety Requirements relating to the design and the construction of equipment and protective systems intended for use according to certain regulations in potentially explosive atmospheres in line with Appendix II of the Directive.
- The examination and test results are recorded in the confidential report IB-02-3-230 dated 24.05.2002.
- (9) The Essential Health and Safety Requirements are fulfilled on account of compatibility with EN 50014:1997+A1+A2 and EN 50020:1994.
- (10) Should the sign “X” appear at the end of the certification number, attention is drawn to special conditions for the safe use of the equipment or protective system which can be found in the appendix to this EC-type examination certificate (see 17).
- (11) This EC TYPE EXAMINATION CERTIFICATE only refers to the design and construction of this specified equipment or protective system. The additional requirements of this Directive which are valid for the manufacture and supply of this equipment or protective system are not covered by this certificate.
- (12) The marking of the equipment must contain the following details:

Ex I M2 EEx ia I
-5°C < T_a < + 50°C

IBExU Institute for Safety Technology
Fuchsmühlenweg 7 - D-09599 Freiberg
Tel: 03731 3805-0 Fax: 03731 23650

Certification authority Explosion Protection
The person in charge
[signature]
(Dr. Lösch)

[Stamp of IBExU]

Freiberg, 2002.05.24

- stamp -
(ID-no. 0637)

Certificates without signature and stamp are not valid. This EC type examination certificate may only be distributed in unchanged form.



(13)

Appendix

(14) **to the EC TYPE EXAMINATION CERTIFICATE IBExU02ATEX 1073 X**

(15) **Description of the equipment or protective system**

The pocket PC is a portable intrinsically safe apparatus for use in potentially explosive areas of Group I with intrinsically safe electrical circuits of category M2. It is intended for data management and can, as an alternative, be fitted with WLAN card, bar-code scanner or additional memory. An additional IrDA interfaces enables infrared signal transmission. Furthermore, a special headset can be attached.

The accumulator is charged outside the potentially explosive area using a special charger.

Electrical data and characteristics

Type designation:	Ex-IT 700**
Protective rating of housing:	IP54
Power supply:	Lithium-Ion Polymer accumulator AM Ex-IT 700
Headset connection:	Ignition protection type EEX ia IIC, only for ecom headset

Technical safety instruction

The charging and replacement of the accumulator must be done outside the potentially explosive area. Only ecom headsets are to be used, see EC Type Examination Certificate ZELM02ATEX0084.

Further details are specified in the test details (see appendix).

(16) **Test report**

The substantiation of the explosion protection is described in detail in the confidential test report IB-02-3-230 dated 24.05.2002.

(17) **Special conditions**

The display is to be protected against impact damage. In the case of damage to the display, the Pocket-PC is to be withdrawn from use immediately.

(18) **Essential Health and Safety Requirements**

Assured by compliance with the standards (see [9])

On behalf of
[signature]
(Dr. Lösch)

Freiberg, 27.05.2002



IBExU Institute for Safety Technology GmbH
An Institute of the TU Bergakademie Freiburg

Appendix

to the EC TYPE EXAMINATION CERTIFICATE IBExU02ATEX 1073 X

Test documentation

Serial-no.		Signed on:
(1)	Description of Pocket-PC Ex IT 700**	14.05.02
(2)	600 G 8000 Identification	06.05.02
(3)	600 G 9000 Back view of housing	08.04.02
(4)	600 G 9100 General view of housing	08.04.02
(5)	600 G 9800 Carrying strap	29.04.02