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instruments

Safety instructions
Pocket PC 39a-Ex



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1. Application

The Pocket PC 39a-Ex is a portable, Non-Incendive Pocket PC for industrial use in explosion-endangered areas of Class I DIV 2, Groups A,B,C and D according to NI classes.

2. Safety instructions

This operating manual contains information and safety recommendations which must be complied with in order to guarantee safe functioning of the unit under the conditions described.

Please read these operating instructions very carefully before using the unit !

In case of doubt (for example due to mistakes in the translation) the German operating instructions are assumed to be valid.

3. Content of delivery box

- ❶ Extra stylus
- ❷ Pocket PC 39a-Ex
- ❸ Protective cover pack
- ❹ Universal cradle for both USB and serial connections with tether
- ❺ AC adapter
- ❻ DC adapter plug



4. Malfunctioning and inadmissible operation

As soon as one suspects that the safety of the equipment is endangered, it must be taken out of service and immediately removed from the hazardous (classified) locations. Precautions must be taken to prevent its unintentional reuse. We recommend that the unit be returned to the manufacturer for checking.

For example, the safety of the unit could be endangered when:

- damage to the housing is visible.
- the unit was subjected to improper strain.
- the unit was incorrectly stored.
- the unit was damaged in transit.
- the lettering on the unit is unreadable.
- malfunctioning occurs.
- the permissible limiting values were exceeded.

5. Safety regulations

In order to exclude incorrect operation of the unit, it is assumed that the user is aware of and complies with the usual safety regulations.

- the unit may not be opened in the hazardous (classified) locations.
- the accumulator may only be charged with original power supply and only outside the hazardous (classified) locations.
- **it must be ensured that the unit is not taken into Division 1 areas.**
- it is only allowed to use certified modules for the communication port or the headphone jack inside the hazardous area.
- avoid the use in aggressive acids and alkalis.

6. Ex-Data

Ex-Marking :



NI Class I DIV 2 ABCD T6
AEx nA IIC T6

7. Technical Data

Technical Specifications

Processor	PXA250
Memory	32 MB SDRAM or greater
Display	Transflective color TFT, 240 x 320 pixels, 64K-color support, .24-dot pitch LED Backlight Multi-level brightness adjustment, light sensor for automatic adjustment of brightness level
Audio	Speaker, 3.5 mm stereo headphone jack (please notice chapter 5)
Infrared	IrDA, data transfer up to 115.2 Kb per second and Universal Remote Control for control of home entertainment units
Bluetooth Communications	internal Communication port, Expansion Pack connector (please notice chapter 5)
Indicators	3 mode alarm notification: Flashing green LED, tone, pop-up message Charge active: flashing/solid amber LED Bluetooth active: flashing blue LED
Battery	Lithium Polymer

Physical Specifications

	US	Metric
Length	5.28 in	134.0 mm
Width	3.30 - 3.03 in tapering	84.0 - 77.0 mm tapering
Depth	0.63 in	15.9 mm
Weight	6.49 oz	184 g

Operating Environment

	US	Metric
Temperature		
Operating	32° to 104°F	0° to 40°C
Storage	-22° to 140°F	-30° to 60°C

Relative Humidity		
Operating	10 to 90%	10 to 90%
Storage	10 to 90%	10 to 90%
Maximum Altitude		
Operating	0-15,000 ft	14.7 to 10.1 psia
Storage	0-15,000 ft	14.7 to 10.1 psia

8. Operating instructions

Before using the equipment for first time, please read the safety and operating instructions very thoroughly.

9. Commissioning

To connect the Pocket PC 39a-Ex with the PC and the power outlet outside the hazardous areas see following diagram.

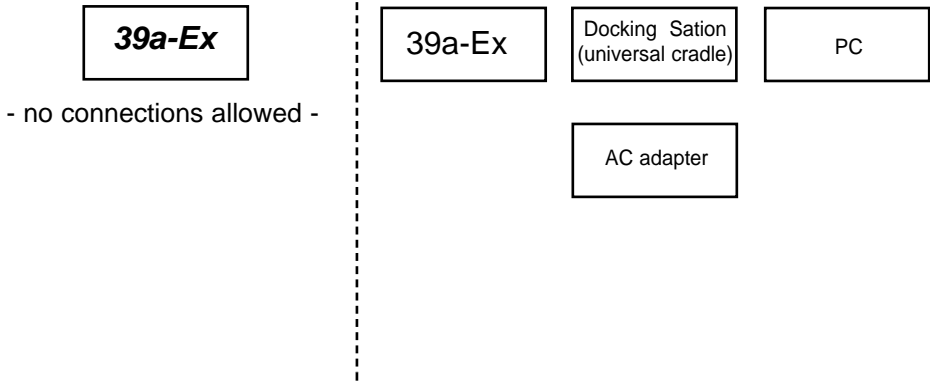


For further information please refer to the enclosed original operating instructions.

Hazardous (Classified) Location

Nonhazardous Location

Class I, Division 2, Groups A-D



10. Charging procedure

The Pocket PC 39a-Ex can be charged at any time in the universal cradle outside the hazardous area using the original power supply.

The charging procedure starts immediately when the power supply is connected to an outlet and the Pocket PC 39a-Ex is inserted in the universal cradle. The amber charge light blinks when your Pocket PC 39a-Ex is recharging the battery. The amber charge light is solid (nonblinking) when the battery is fully charged.

11. Additional modules

Inside the hazardous areas NO additional plugged-on modules are allowed.

Do not connect or disconnect additional SD or MMC cards inside the hazardous areas.

12. Changing the battery

The battery must be replaced by the manufacturer.

13. Repairs

We recommend that repairs be carried out in the manufacturer's factory as it is necessary for the unit to be checked for technical and safety reasons.

14. Cleaning and maintenance

The unit should only be cleaned with a cloth suitable for the purpose.

Please refer to the original operating instructions.

Detergents or abrasive materials should not be used.

We recommend that the function and accuracy of the unit be checked every two years by the manufacturer.

15. Guarantee & liability

For this product, *ecom instruments GmbH* guarantees the function and material for a period of two years under normal operating and maintenance conditions. The guarantee does not apply to products which are improperly used, modified, neglected, damaged in accidents or exposed to abnormal operating conditions. Claims under the guarantee can be made by returning the defective equipment to the factory.

We reserve the right to repair, renew the settings or exchange the device. Claims under the guarantee can be made by returning the defective equipment to the factory.

The above-mentioned guarantee conditions are the sole and only right of the purchaser to compensation, are exclusively valid and replace all other contract or legal warranty obligations.

ecom instruments GmbH accepts no responsibility for special, direct, indirect, accompanying or consequential damage as well as losses including the loss of data which may arise through the use or acquisition of the equipment independent of whether it was caused by violation of the warranty obligation, lawful or unlawful action, action in good faith or any other action.

If in certain countries the limitation of a legal guarantee as well as the exclusion or limitation of accompanying or consequential damage is not permissible, it may be that the above-mentioned limitations and exclusions are not valid for every purchaser.

Should any such clauses of these guarantee terms be declared null and void or not realisable by a competent court, then the effectiveness or enforceability of any of the other conditions of these guarantee terms will be unaffected by the court decision.

16. Certificate of Compliance



FM Approvals
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P.O. Box 9102 Norwood, MA 02062 USA
T: 781 762 4300 F: 781 762 9375 www.fmglobal.com

CERTIFICATE OF COMPLIANCE

HAZARDOUS (CLASSIFIED) LOCATION ELECTRICAL EQUIPMENT

This certificate is issued for the following equipment:

Ex-PDA POCKET PC
NI / I / 2 / ABCD / T6, Ta = 40°C SIIPAQ3975ENG.DOC
AEx nA Group IIC/T6, Ta = 40°C SIIPAQ3975ENG.DOC

Equipment Ratings:

Suitable for Class I, Division 2, Groups A, B, C, and D hazardous (classified) locations
and suitable for Class I, Zone 2, Group IIC hazardous (classified) locations

Approved for:

ecom instruments
Industriestraße 2, D-97959 Assamstadt, Germany



This certifies that the equipment described has been found to comply with the following FM Approval Standards and other documents:

Class 3600	1998
Class 3611	1999
Class 3810	1989

Original Project ID: 3013936

FM Approval Granted: November 22, 2002

Subsequent Revision Reports / Date FM Approval Amended

Report Number	Date	Report Number	Date
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FM Global Technologies LLC

A handwritten signature in black ink, appearing to read "David W. Styracula".

David W. Styracula
Technical Team Manager

12/2/02
Date



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