

IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.:

IECEx PTB 13.0043X

issue No.:2

Certificate history:

Status:

Current

Issue No. 2 (2016-4-11) Issue No. 1 (2015-9-8) Issue No. 0 (2014-1-27)

Date of Issue:

2016-04-11

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Applicant:

BARTEC GmbH Max-Eyth-Straße 16

97980 Bad Mergentheim

Germany

Electrical Apparatus: Optional accessory:

Mobile Computer type series MC92N0ex 17-A1A3-****/********

Type of Protection:

General Requirements, Powder Filling "q", Intrinsic Safety "i"

Marking:

Mobile computer type series MC92N0ex 17-A1A3-***0/******; 17-A1A3-R**1/*******

17-A1A3-R**2/*******; 17-A1A3-R**3/******; 17-A1A3-R**4/******; 17-

A1A3-R**5/******

17-A1A3-R**6/*******; 17-A1A3-R**A/******; 17-A1A3-R**B/******;

Ex q [ib] IIC T4 Gb

Mobile Computer type series MC92N0ex 17-A1A3-R**7/*******: 17-

A1A3-R**8/******

17-A1A3-R**C/******* 17-A1A3-R**D/*******

Ex q [ib] IIB T4 Gb

Approved for issue on behalf of the IECEx

Certification Body:

Dr. U. Gerlach

Position:

Head of the working Group 3.62 "Ignition Hazards of Modern

Energy Supply Systems"

Signature:

(for printed version)

Date:

1. This certificate and schedule may only be reproduced in full.

2. This certificate is not transferable and remains the property of the issuing body.

3. The Status and authenticity of this certificate may be verified by visiting the Official IECEx Website.

Certificate issued by:

Physikalisch-Technische Bundesanstalt (PTB)

Bundesallee 100 38116 Braunschweig Germany



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Manufacturer:

BARTEC GmbH Max-Eyth-Straße 16 97980 Bad Mergentheim

Germany

Additional Manufacturing location

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended.

STANDARDS:

The electrical apparatus and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:

IEC 60079-0: 2011

Explosive atmospheres - Part 0: General requirements

Edition: 6.0

IEC 60079-11: 2011

Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"

Edition: 6.0

IEC 60079-5: 2007-03

Explosive atmospheres - Part 5: Equipment protection by powder filling "q"

Edition: 3

This Certificate does not indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in

Test Report: DE/PTB/ExTR14.0001/02

Quality Assessment Report:

DE/TUN/QAR06.0017/07



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Schedule

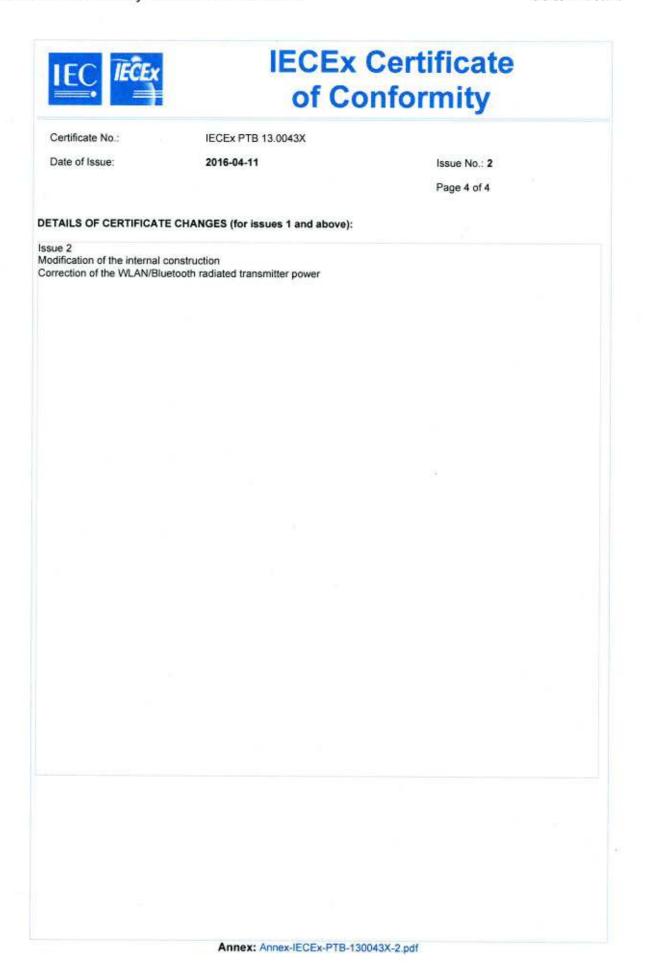
EQUIPMENT:

Details see annex.

Equipment and systems covered by this certificate are as follows:

CONDITIONS OF CERTIFICATION: YES as shown below:

The mobile computers type series MC92N0ex 17-A1A3-****/***** are hand-held electrical apparatus. They are used for the mobile acquisition, processing and radio transmission of data inside the hazardous area. They are used in hazardous areas where equipment group II, EPL Gb is required. If the screen protector type 17-A1Z0-0003 is used as an option, the mobile computer is classified into gas group IIB. Further details see annex.





Attachment to Certificate IECEx PTB 13.0043 X, Issue No. 2



Applicant:

BARTEC GmbH

Max-Eyth-Strasse 16 97980 Bad Mergentheim

Germany

Electrical Apparatus: Mobile Computer MC92N0ex type series 17-A1A3-****/********

The mobile computers MC92N0ex type series 17-A1A3-**** are hand-held electrical apparatus. They are used for the mobile acquisition, processing and radio transmission of data inside the hazardous area. They are used in hazardous areas where equipment group II, EPL Gb are required.

If the screen protector type 17-A1Z0-0003 is used as an option, the mobile computer is classified into gas group IIB.

The relationship between the marking and the mobile computer type is shown in the following table:

Mobile Computer	Marking
Mobile Computer MC92N0ex type series 17-A1A3-***0/********, 17-A1A3-R**1/********, 17-A1A3-R**3/*******, 17-A1A3-R**3/*******, 17-A1A3-R**5/*******, 17-A1A3-R**5/*******, 17-A1A3-R**6/*******, 17-A1A3-R**A/*******, 17-A1A3-R**B/********,	Ex q [ib] IIC T4 Gb
Mobile Computer MC92N0ex type series 17-A1A3-R**7/********, 17-A1A3-R**8/**********************************	Ex q [ib] IIB T4 Gb



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Explanations of digits:

Digit	Digit for:	Variations:	Description
A	Product range	17	Electronic device
В	Device group	Α	Data capture
С	Ex-Protection	1	Ex I and/or Ex II Category 2/Div 1
D	Туре	Α	MC 92 Series
E	Certificate	3	ATEX / IECEx Zone 1
F	WAN	0 R	without Reader
G	Version	G K	Gun Brick
Н	Scan engine	0 3 5 8 A J	without Blockbuster Imager (SE4500-SR) Blockbuster Imager (SE4500-HD) Blockbuster Imager (SE4500-DL) Standard Range Scan Engine (SE965) Long Range Scan Engine (LORAX, SE1524)
I.	Reader	0 1 2 3 4 5 6 7 8 A B C	without RFID LF int. Module RFID HF ext. Module RFID HF ext. Module RFID HF ext. Module RFID UHF [US] ext. Module RFID UHF [EU] ext. Module RFID UHF [EU] ext. Module RFID UHF [US] ext. Module with ext. antenna RFID UHF [EU] ext. Module with ext. Antenna RFID UHF [US] int. Module RFID UHF [EU] int. Module RFID UHF [US] int. Module with ext. Antenna RFID UHF [EU] int. Module with ext. Antenna
0	Display	S	Color VGA
K, L, M, N, O, P, Q	Digits without influ- ence to explosion protection		



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Electrical data

Supply

only from the appropriate battery type 17-A1Z0-0001 7,4 V, 2200 mAh or 2400 mAh

Headset-connector

in type of protection Intrinsic Safety Ex ib IIB for mobile computer MC92N0ex type series 17-A1A3-R**7/********, 17-A1A3-R**8/*********** 17-A1A3-R**D/********

U_o = 8,6 V I_o = 354 mA P_o = 479 mW C_o = 930 nF L_o = 460 μH



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SD-memory cards

The SD-card rack may be fitted with the following SD-cards:

512 MB	Art.Nr. 17-28BE-F006/0001
1 GB	Art.Nr. 17-28BE-F006/0002
2 GB	Art.Nr. 17-28BE-F006/0003
4 GB	Art.Nr. 17-28BE-F006/0004
8 GB	Art.Nr. 17-28BE-F006/0005
16 GB	Art.Nr. 17-28BE-F006/0006
32 GB	Art.Nr. 17-28BE-F006/0007

WLAN / Bluetooth

radiated transmitter power 210 mW

HF-output power

radiated transmitter power max. 2 W

Special conditions for safe use

- If the screen protector type 17-A1Z0-0003 is used as an option the mobile computer shall only be operated in hazardous areas in gas group IIB.
- 2. The battery type 17-A1Z0-0001 shall be charged outside the hazardous area only.
- The exchange of keyboard and SD memory card shall only be performed outside of the hazardous area – (see notes in the manual).
- 4. The mobile computer MC92N0ex type series 17-A1A3-****/******* shall not be used in strong charge-generating processes. This can occur e.g. during electrostatic painting, in pneumatically conveyed dust, flowing liquids and droplets, mechanically driven belts, brushes and foils etc.