

	INTERNATIONAL ELECTR IEC Certification System for rules and details of the IEC	OTECHNICA for Explosiv CEx Scheme visit v	AL COI ve Atm	MMISSION ospheres com	
Certificate No.:	IECEx PTB 13.0043X		Page 1 o	f 4	Certificate history:
Status:	Current		Issue No	: 3	Issue 2 (2016-04-11) Issue 1 (2015-09-08) Issue 0 (2014-01-27)
Date of Issue:	2019-04-24				
Applicant:	BARTEC GmbH Max-Eyth-Straße 16 97980 Bad Mergentheim Germany				
Equipment:	Mobile Computer type series MC92N0ex 17	7-A1A3-****/*****	***		
Optional accessory:					
Type of Protection:	General Requirements, Powder Filling "q", systems using optical radiation	Intrinsic Safety	"i", Prote	ction of equipmen	t and transmission
Marking:					
	Mobile Computer MC92N0ex type series		Marking		
	17-A1A3-***0/********, 17-A1A3-R**2/******** 17-A1A3-R**4/********, 17-A1A3-R**5/******* 17-A1A3-R**6/*******	, *,	II 2 G	Ex q op is [ib] IIC T	4 Gb
	17-A1A3-R**1/*******,17-A1A3-R**3/******* 17-A1A3-R**A/*******,17-A1A3-R**B/*******	, **	II 2 G	Ex q [ib] IIC T4 Gb	
	17-A1A3-R**7/*******, 17-A1A3-R**8/*******	*	II 2 G	Ex q op is [ib] IIB T	4 Gb
	17-A1A3-R**C/*******, 17-A1A3-R**D/******	**	II 2 G	Ex q [ib] IIB T4 Gb	
Approved for issue of Certification Body: Position:	on behalf of the IECEx	DrIng. Frank I Department He and Instrumen	Lienesch ead "Explo tation"	osion Protection in	Sensor Technology
Signature: (for printed version)					
Date:					
<ol> <li>This certificate a</li> <li>This certificate is</li> <li>The Status and a</li> </ol>	nd schedule may only be reproduced in full. not transferable and remains the property of the authenticity of this certificate may be verified by v	e issuing body. /isiting www.iece>	k.com or u	se of this QR Code.	
Certificate issued Physikalisch-Te Bundesallee 10 38116 Braunsch Germany	d by: echnische Bundesanstalt (PTB) 0 nweig			Physikalisch-Tec Braunschweig un	PTB nnische Bundesanstatt d Berlin



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Manufacturer:	BARTEC GmbH Max-Eyth-Straße 16 97980 Bad Mergentheim Germany	
Additional manufacturing locations:		
This certificate is issu the IEC Standard list assessed and found t IECEx Scheme Rules	ed as verification that a sample(s), representative of production, below and that the manufacturer's quality system, relating to the o comply with the IECEx Quality system requirements.This certi c, IECEx 02 and Operational Documents as amended	, was assessed and tested and found to comply with Ex products covered by this certificate, was ficate is granted subject to the conditions as set out in
<b>STANDARDS</b> : The equipment and a to comply with the foll	ny acceptable variations to it specified in the schedule of this ce owing standards	rtificate and the identified documents, was found
IEC 60079-0:2011 Edition:6.0	Explosive atmospheres - Part 0: General requirements	
IEC 60079-11:2011 Edition:6.0	Explosive atmospheres - Part 11: Equipment protection by intr	insic safety "i"
IEC 60079-28:2015 Edition:2	Explosive atmospheres - Part 28: Protection of equipment and	transmission systems using optical radiation
IEC 60079-5:2015 Edition:4.0	Explosive atmospheres –Part 5: Equipment protection by powe	der filling "q"
	This Certificate <b>does not</b> indicate compliance with safety an other than those expressly included in the Stand	d performance requirements ards listed above.
TEST & ASSESSME	NT REPORTS:	

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

Test Report:

DE/PTB/ExTR14.0001/03

Quality Assessment Report:

DE/TUN/QAR06.0017/10



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#### EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

Further details see annex.

SPECIFIC CONDITIONS OF USE: YES as shown below: Details of specific conditions of use see annex.



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#### DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Updating of the standard IEC 60079-5:2015. Inclusion of standard IEC 60079-28:2015 to the test specification. Adaptation of the marking. Extension of the electrical data with the inclusion of Micro SD-cards and the extension of the available batteries in the battery pack. Further changes concern the internal structure.

Annex:

Annex to Annex IECEx-PTB-130043X-3.pdf





Applicant: BARTEC GmbH Max-Eyth-Strasse 16 97980 Bad Mergentheim Germany

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

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 MC92N0ex type series	Marking
17-A1A3-***0/********, 17-A1A3-R**2/*******, 17-A1A3-R**4/*******, 17-A1A3-R**5/*******, 17-A1A3-R**6/*******	€ II 2 G Ex q op is [ib] IIC T4 Gb
17-A1A3-R**1/*******,17-A1A3-R**3/*******, 17-A1A3-R**A/*******,17-A1A3-R**B/*******	🕼 II 2 G Ex q [ib] IIC T4 Gb
17-A1A3-R**7/*******, 17-A1A3-R**8/*******	(Ex) II 2 G Ex q op is [ib] IIB T4 Gb
17-A1A3-R**C/*******, 17-A1A3-R**D/*******	🕼 II 2 G Ex q [ib] IIB T4 Gb





Type key:																				
Type-No.	17	-	А	1	А	3	-	*	*	*	*	/	*	*	*	*	*	*	*	*
Digit- No	А		В	С	D	Е		F	G	Н	Ι		J	Κ	L	Μ	Ν	0	Ρ	Q

Explanations of digits:

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





Electrical data	
Supply	in type of protection Intrinsic Safety Ex ib IIC for mobile computer MC92N0ex type series 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/******
	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**C/*******, 17-A1A3-R**D/*******
	only from the appropriate battery type 17-A1Z0-0001 7,4 V, 2200 mAh or 2400 mAh 7,2 V, 2880 mAh
Headset-connector (microphon + loudspeaker)	in type of protection Intrinsic Safety Ex ib IIC for mobile computer MC92N0ex type series 17-A1A3-***0/*********************************
	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**C/*******, 17-A1A3-R**D/*******
	Maximum values: $U_o = 8,6 V$ $\Sigma I_o = 354 mA$ $P_o = 479 mW$ characteristic linear $C_i$ and $L_i$ are negligibly small Maximum values of together occurring reactances: (acc. ISPARK 6.0) $C_o = 930 nF$ $L_o = 460 \mu H$





SD-memory cards	in type of protection Intrinsic Safety Ex ib IIC for mobile computer MC92N0ex type series 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/******					
	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**C/*******, 17-A1A3-R**D/*******					
	SD memory cards 17-28BE-F006/xxxx may be used in the SD memory card holder, e.g.:         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					
	Micro SD memory cards types 17-A1Z0-0008/xxxx,17-A1Z0-0008, 17-A1Z0-0009 and 17-A1Z0-0010 maybe used in the Micro SD memory card holder, e.g.:512MBArt.Nr. 17-A1Z0-0008/00011GBArt.Nr. 17-A1Z0-0008/00022GBArt.Nr. 17-A1Z0-0008/00034GBArt.Nr. 17-A1Z0-0008/00048GBArt.Nr. 17-A1Z0-000816GBArt.Nr. 17-A1Z0-000932GBArt.Nr. 17-A1Z0-0010					
WLAN / Bluetooth	radiated transmitter power 210 mW					
HF-output power	radiated transmitter power max. 2 W					





### Special conditions for safe use

- 1. 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.
- 3. The exchange of keyboard and SD/micro SD memory card shall only be performed outside of the hazardous area – (see notes in the manual).