

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

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

| Certificate No.: | IECEx UL 16.0160 | | Issue No: 1 | Certificate history: Issue No. 1 (2018-10-30) |
|---|---|-----------------------|-------------|--|
| Status: | Current | | _ | Issue No. 0 (2017-01-09) |
| Date of Issue: | 2018-10-30 | | Page 1 of 4 | |
| Applicant: | BARTEC GmbH Max-Eyth-Straße 16 97980 Bad Mergentheim Germany | | | |
| Equipment: Optional accessory: | Intrinsically Safe Tablet Computer - Agile X IS, Type 17-A1B*-****/******** | | | |
| Type of Protection: | Intrinsic Safety "ia" and Optical Radiation "op is | 1 | | |
| Marking: | Ex ia op is IIC T4 Ga | | | |
| | Ex ia op is IIC T4 Gb | | | |
| | Ex ia op is I Ma | | | |
| | Ex ia op is I Mb | | | |
| | -20°C ≤ Ta ≤ +50°C | | | |
| Approved for issue or Certification Body: | n behalf of the IECEx | Katy A. Holdredge | | |
| Position: | | Senior Staff Engineer | | |
| Signature: (for printed version) | | | | |
| Date: | | | | |
| | | | | |
| This certificate and schedule may only be reproduced in full. This certificate is not transferable and remains the property of the issuing body. The Status and authenticity of this certificate may be verified by visiting the Official IECEx Website | | | | |

Certificate issued by:

UL LLC 333 Pfingsten Road Northbrook IL 60062-2096 United States of America





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| Manufacturer: | BARTEC GmbH Max-Eyth-Straße 16 97980 Bad Mergentheim Germany | |

Additional Manufacturing location(s):

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 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 Edition:6.0 | Explosive atmospheres - Part 0: General requirements |
|--|---|
| IEC 60079-11 : 2011 Edition:6.0 | Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i" |
| IEC 60079-28 : 2015 Edition:2 | Explosive atmospheres - Part 28: Protection of equipment and transmission systems using optical radiation |

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:

US/UL/ExTR16.0185/01

Quality Assessment Report:

DE/TUN/QAR06.0017/10



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The device covered by this certificate is a handheld tablet computer with touch screen. It is powered by a non-replaceable, rechargeable, internal battery and an optional, replaceable external battery pack. Connection facilities are provided for a USB stick, an SD card, a SIM card, and other external accessories. The device may be configured with a RFID/NFC reader and/or a laser barcode scanner.

Please see Annex for additional information.

SPECIFIC CONDITIONS OF USE: NO



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

Issue 1: Added alternative enclosure material, Group I certification and intrinsic safety entity parameters to various external ports. Revised nomenclature to designate Group I models, increased the ingress protection to IP65, various minor electrical and mechanical changes.

Annex:

Annex to IECEX UL 16.0160 Issue 1.pdf



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TYPE DESIGNATION

Nomenclature for "Agile X IS" Tablet PC, Type 17-A1B*-****-*********

Type 17- A1B *-****/******** (Certification) 3 or 4 or A – Group II, Zone 1 Certified – Ex ia op is IIC T4 Gb 5 or 6 or B - Group II, Zone 0 Certified - Ex ia op is IIC T4 Ga C – Groups I and II, Zone 1 Certified – Ex ia op is IIC T4 Gb, Ex ia op is I Mb D – Groups I and II, Zone 0 Certified – Ex ia op is IIC T4 Ga, Ex ia op is I Ma E – Group I, Zone 1 Certified – Ex ia op is I Mb F - Group I, Zone 0 Certified - Ex ia op is I Ma Type 17- A1B *-<u>****/********</u> (Display) 1 – 10" Capacitive Type 17- A1B *-****/******** (WAN Carriers) 0 – None 1 or 2 – 4G/LTE Type 17- A1B *-****/******** (Operating System) 0-9 – Functions not affecting construction Type 17- A1B *-****/******** (Processor) 0-9 - Functions not affecting construction Type 17- A1B *-***/<u>*</u>******* (Memory) 0-9 - Functions not affecting construction Type 17- A1B *-***/*<u>*</u>******* (Memory) 0-9 - Functions not affecting construction 0 – None 1 – 5MP Rear, 2MP Front Type 17- A1B *-****/************************* (External Battery) 0 – None 1 – 7.4V / 4200mAh 0 – None 1 – RFID HF/NFC Type 17- A1B *-***/************ (Scanner) 0 – None 1 – 1D/2D-Imager SE4500 Type 17- A1B *-****/******** (Customer variants) A-Z/0-9 - Customer Variants not affecting construction

PARAMETERS RELATING TO THE SAFETY

Powered by internal battery rated 7.4V, 4200mAh, and optional external battery pack, BARTEC Type 17-A1Z0-0006 rated 7.4V, 4200mAh. The external battery pack may be replaced in a hazardous location.

U_m = 25V for the DCin jack and Docking Connector, which may not be used in a hazardous location.



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Accessories:

The device may be used with the following BARTEC accessories, which are included as part of this certification:

• Type 17-A1Z0-0007 USB Memory Stick. Alternatively, the USB Port has the following intrinsic safety entity parameters:

| USB Port: | Uo = 6.07V | | | |
|-----------|------------|-----------|----------|------------|
| | lo = 4.46A | | | |
| | Po = 2.15W | | | |
| | Co = 28µF | Co = 12µF | Co = 9µF | Co = 6.9µF |
| | Lo = 2µH | Lo = 5µH | Lo = 7µH | Lo = 9µH |

• Type 17-A1Z0-00** SD Memory Card, where ** is 08, 09, or 10. Alternatively, the SD Card Port has the following intrinsic safety entity parameters:

| SD Card Port: | Uo = 4.63V |
|------------------|------------|
| | lo = 2.76A |
| | Po = 1.18W |
| | Co = 79µF |
| | Lo = 2µH |

Expansion Port – The Expansion Port has the following intrinsic safety entity parameters. Under this certificate, the Agile X IS has been subjected to additional mechanical tests with the BARTEC Model 17-A1Z0-0005 HART Module connected. The Model 17-A1Z0-0005 HART Module is certified under IECEx EPS 15.0065X.

| Expansion Port: | Uo = 8.11V | | |
|--------------------|------------|------------|--|
| | lo = 5.69A | | |
| | Po = 8.04W | | |
| | Co = 7.6µF | Co = 5.3µF | |
| | Lo = 2µH | Lo = 5µH | |



Certificate No.:

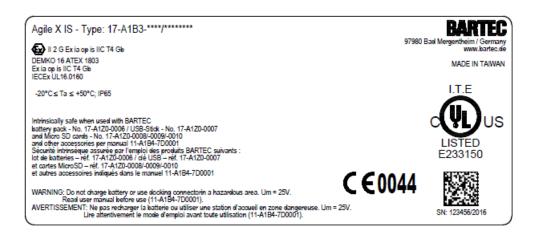
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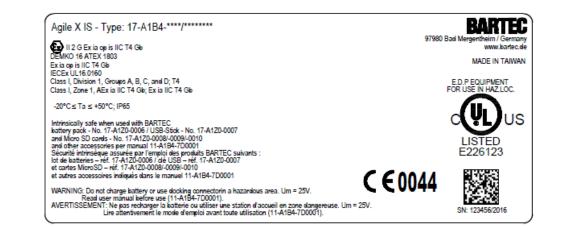
MARKING

Marking has to be readable and indelible; it has to include the following indications:

TABLET-PC - Type 17-A1B3-****/*******



TABLET-PC - Type 17-A1B4-****/*******





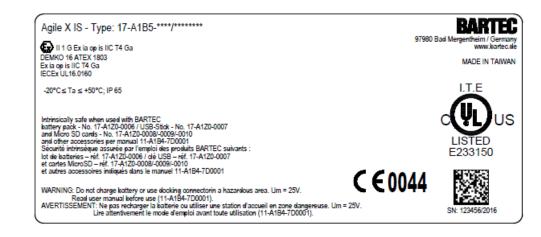
Certificate No.:

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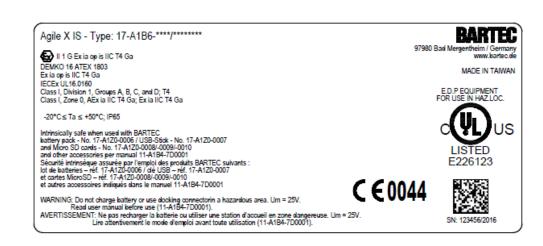


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TABLET-PC - Type 17-A1B5-****/*******



TABLET-PC - Type 17-A1B6-****/*******





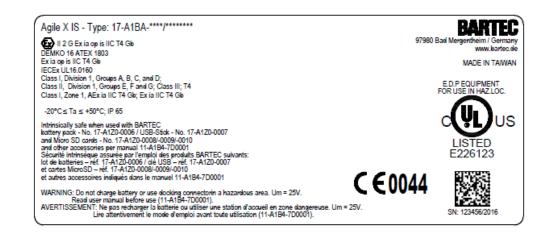
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IECEx UL 16.0160

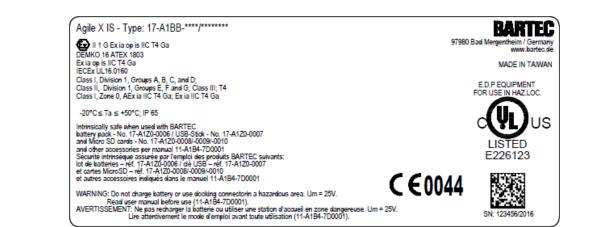


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TABLET-PC - Type 17-A1BA-****/*******



TABLET-PC - Type 17-A1BB-****/*******





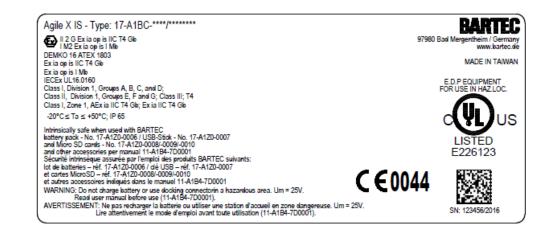
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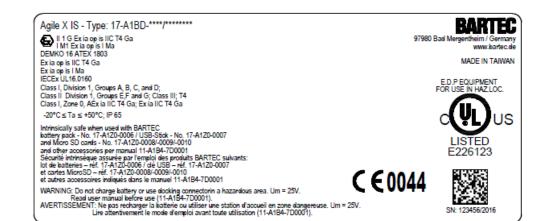


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TABLET-PC - Type 17-A1BC-****/*******



TABLET-PC - Type 17-A1BD-****/*******





Certificate No .:

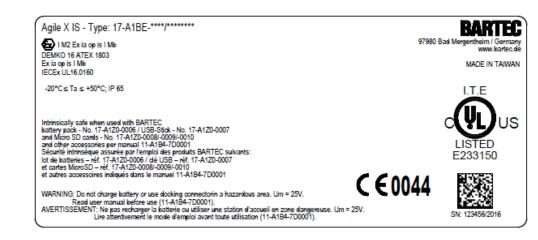
IECEx UL 16.0160



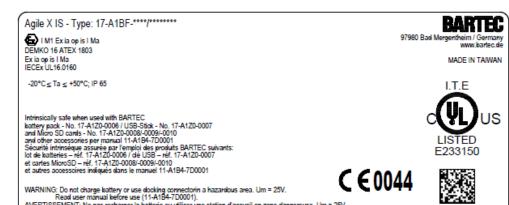
SN: 123456/2016

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TABLET-PC - Type 17-A1BE-****/*******



TABLET-PC - Type 17-A1BF-****/*******



WARNING: Do not charge battery or use docking connectorin a hazardous area. Um = 25V. Read user manual before use (11-A184-7D0001). AVERTISSEMENT: Ne pas recharger la batterie ou utiliser une station d'accueil en zone dangereuse. Um = 25V. Lire attentivement le mode d'emploi avant toute utilisation (11-A184-7D0001).