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Ontploffing Beskermingsdienste
Explosion Prevention Services

Reg No.: 2012/055110/07; VAT No.: 4830273027

ACCREDITED TEST LABORATORY

IN TERMS OF THE ARP 0108: "REGULATORY REQUIREMENTS FOR EXPLOSION PROTECTED APPARATUS"

INSPECTION AUTHORITY CERTIFICATE

BARTEC SAFETY (PTY) LTD.
P.O. BOX 58071
NEWVILLE
2114

Issued: 2019/06/18
Expire: 2022/06/18
Revision: 1

Equipment: Tablet Computer
Manufacturer: BARTEC GmbH
Address: Max-Eyth-Straße 16, 97980 Bad Mergentheim, Germany
Model/Type: Agile X IS, Type 17-A1B* - ****/*****
Serial No.: All units imported between Issued and Expiry dates.

Applicant:

BARTEC SAFETY (PTY) LTD.

Inspection Authority Number: **MTEx-MS/19.0232 X**

MTEx Record Number: **MTEx 0711/19.0232**

Ex Rating: **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

Standards used:

SANS 60079-0: 2012 Ed.5 IEC 60079-0: 2011 Ed.6	Explosive atmospheres – Part 0: General requirements.
SANS 60079-11: 2012 Ed.4 IEC 60079-11: 2011 Ed.6	Explosive atmospheres – Part 11: Equipment protection by intrinsic safety "i".
SANS 60079-28: 2016 Ed.2 IEC 60079-28: 2015 Ed.1	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.

Hazardous Area: Zone 0, 1 and 2
Occurrence: Continuous, Intermittent and abnormal conditions
Hazardous Group: I & IIC
Permitted Temperature: T4 (135°C)

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Template: MTExDOC101 Rev 4
Approve date : (2018/10/24)

- Type 17- A1B *_****/***** (Processor)
0-9 – Functions not affecting construction
- Type 17- A1B *_****/***** (Memory)
0-9 – Functions not affecting construction
- Type 17- A1B *_****/***** (Memory)
0-9 – Functions not affecting construction
- Type 17- A1B *_****/***** (Camera)
0 – None
1 – 5MP Rear, 2MP Front
- Type 17- A1B *_****/***** (External Battery)
0 – None
1 – 7.4V / 4200mAh
- Type 17- A1B *_****/***** (Data Acquisition)
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

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:	U _o = 6.07V			
	I _o = 4.46A			
	P _o = 2.15W			
	C _o = 28µF	C _o = 12µF	C _o = 9µF	C _o = 6.9µF
	L _o = 2µH	L _o = 5µH	L _o = 7µH	L _o = 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:	U _o = 4.63V
	I _o = 2.76A
	P _o = 1.18W
	C _o = 79µF
	L _o = 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:	U _o = 8.11V	
	I _o = 5.69A	
	P _o = 8.04W	
	C _o = 7.6μF	C _o = 5.3μF
	L _o = 2μH	L _o = 5μH

2. ELECTRICAL/ AND SAFETY PARAMETERS

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

3. REASON FOR REVIEW

- ARP 0108: 2018 Requirement.

4. DOCUMENTATION PROVIDED

- IECEX Quality Assessment Report (DE/TUN/QAR06.0017/10)
- IECEX Certificate of Conformity (IECEX UL 16.0160 up to issue 1)

5. SPECIAL CONDITIONS OF SAFE USE (X)

- The unit may only be charged in a safe area.

6. MARKING

For validity purposes, the following marking must be added to all equipment covered by this certificate:

Manufacturer: BARTEC GmbH
Supplier: BARTEC Safety (Pty) Ltd.
Equipment: Tablet Computers
Model/Type: Agile X IS, Type 17-A1B* -****/*****
IA Number: MTEEx-MS/19.0232 X
Ex Rating: 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

Serial No.: ----

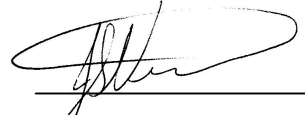
Note 1: It is the responsibility of the supplier to ensure that the marking label complies with the ARP 0108: 2018, clause 8.3.

Authorized by:



D Young, Testing Officer.

Reviewed by:



JS Venter, Editor.

MTEEx Laboratories

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MTEEx Laboratories takes no responsibility for any non-conforming tests / assessments / results which is not in compliance with the relative Standards. By marking the equipment as mentioned in the documentation, the manufacturer takes full responsibility that the equipment has indeed complied with the original type assessment and has been subjected to any routine verification(s) / test(s) respectively.

End of Certificate