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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

i.SAFE MOBILE GMBH i_PARK TAUBERFRANKEN 10 97922 LAUDA-KOENIGSHOFEN GERMANY

Issued: 2018/10/26 Expire: 2021/10/26 Revision: Rev.1

Equipment:Intrinsically safe SmartphoneManufacturer:i.safe MOBILE GmbHAddress:i_Park Tauberfranken 10, 97922 Lauda-Koenigshofen, GermanyModel/Type:IS520.1Serial No.:Units imported between Issued and Expiry dates.

Applicant: i.SAFE MOBILE GMBH

Inspection Authority Number: MTEx-S/18.0263 X

MTEx Record Number: MTEx 0436/18.0263

Ex Rating: Ex ib IIC T4 Gb Ex ib IIIC T135°C Db IP6X

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". 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 1 and 2, Gas surfaceOccurrence:Intermittent or under abnormal conditionsHazardous Gas Group:Group IICHazardous Dust Group:Group IIICPermitted Temperature:T4 (135°C) and 135°C for dust applications

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Template: MTExDOC101 Rev 3 Approve date :(2017/10/31)

Equipment Protection level (EPL):

EPL		Definition
Gas	Dust	
Gb	Db	Equipment for explosive gas and dust atmospheres, having a "high" level of protection, which is not a source of ignition in normal operation or during expected malfunctions.
Gc	Dc	Equipment for explosive gas and dust atmospheres, having an "enhanced" level of protection, which is not a source of ignition in normal operation and which may have some additional protection to ensure that it remains inactive as an ignition source in the case of regular expected occurrences (for example failure of a lamp).

This certification indicates compliance with R10.1 of the Mines Health and Safety Act and/or EMR 8(1) of the Occupational Health and Safety Act, provided that the apparatus is used as prescribed in accordance with:

- 1) Any conditions set out in this Certificate;
- 2) This certificate only covers equipment imported between the "Issued" and "Expiry" dates;
- 3) When the supporting Q.A.N. (Quality Assurance Notification) of the equipment manufacturer expires, it is the responsibility of the applicant (as mentioned above) to submit a valid Q.A.N to MTEx Laboratories.
- 4) The test results presented in this Ex Test Report relate only to the item or product tested.

1. OVERVIEW

The intrinsically safe, rugged industrial smartphone IS520.1 has been designed for use in explosion hazardous areas of zone 1 and 21. The smartphone provides numerous technologies like 4G (LTE), NFC, GPS, Wi-Fi and Bluetooth LE. Equipped with an SD card, changeable battery, 2 cameras (optional), amplified speaker, magnetic charging port and side keys, which allows the allocation of user specific functions or applications.

2. REASON FOR REVIEW

ARP 0108: 2014 Requirement. Rev. 1 – Date updated

3. DOCUMENTATION PROVIDED

- IECEx Certificate of Conformity (IECEx EPS 17.0032X)
- Quality Assessment Report (DE/EPS/QAR12.0003/05)

4. ELECTRICAL / SAFETY PARAMETERS

Power supply: The smartphone may only be used with the intrinsically safe battery pack BPIS520.1 made by i.safe MOBILE GmbH. Li-Ion battery Uo = 3.8 V (Uo_max = 4.35 V) / 3.6 Ah / 13.68 Wh

Interface The smartphone has an USB interface for charging and data transfer and additional magnetic charging port contact on the side for charging. The opening of the USB interface cover in explosive atmospheres is not permitted. Wired data connection and charging is only allowed outside explosion hazardous areas and only with the i.safe PROTECTOR cable from i.safe

MOBILE GmbH or other accessories specified by i.safe MOBILE GmbH.

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5. INSTALLATION INSTRUCTIONS

The instructions provided with the product shall be followed in detail to assure safe operation.

6. CONDITIONS OF CERTIFICATE (X)

- The battery shall be charged outside explosion hazardous areas only.
- The device must be protected from impacts with high impact energy, against excessive UV light emmision and high electrostatic charge processes.
- The permitted ambient temperature range is -20°C to +60 °C.

7. MARKING

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

Manufacturer:	i.Safe Mobile GmbH
Supplier:	i.Safe Mobile GmbH
Equipment:	Intrinsically safe Smartphone
Model/Type:	IS520.1
IA Number:	MTEx-S/18.0263 X
Ex Rating:	Ex ib IIC T4 Gb
-	Ex ib IIIC T135°C Db IP6X
Serial No.:	

Note: It is the responsibility of the supplier to ensure that the marking label complies with the ARP 0108: 2014, clause 7.

Authorized by:

D. Young, Testing Officer

Reviewed by:

JS Venter, Editor.

MTEx Laboratories

Note: This document may not be reproduced except in full.

MTEx 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