



Ontploffingvoorkomingstechnologie
Explosion Prevention Technologies

MTEEx Laboratories

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INSPECTION AUTHORITY (IA) CERTIFICATE

i.safe MOBILE GmbH.
i_Park Tauberfranken 10
97922 Lauda-Koenigshofen
Germany

Issued: 2023/02/10
Expire: 2026/02/10
Revision: 1
Job File Number: 0901

Applicant:

i.safe MOBILE GmbH

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

IA Number: MTEEx-MS/20.0014 X
Manufacturer: i.safe MOBILE GmbH
Supplier: i.safe MOBILE GmbH
Equipment: Intrinsically Safe and Industrial Tablet.
Model/Type: IS930.M1
Ex Rating: Ex ia I Ma IP64
Ex ib IIC T4 Gb
Ex ib IIIC T135°C Db IP6X
Serial No.: All units imported between the issue and expiry dates of this certificate.


Standards used:

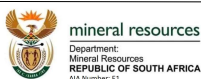
SANS 60079-0: 2019 Ed.6 IEC 60079-0: 2017 Ed.7	Explosive atmospheres – Part 0: General requirements.
SANS 60079-11: 2012 Ed.4 IEC 60079-11: 2011 Ed.6	Explosive atmospheres – Part 11: Equipment protection by intrinsic safety "i".

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

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 MTEEx Laboratories.
- 4) The test results presented in this "Ex" Test Report relate only to the item or product testing.
- 5) Note: It is the responsibility of the supplier to ensure that the marking label complies with the ARP 0108.
- 6) This Certificate validates all units imported between Issued and Expiry dates.

Reviewed by + Signature (ExTL):	A. van Niekerk	
Approved by + Signature (ExCB): (MTEEx Laboratories Technical Signatory)	D. Young	



MTEEx Laboratories is an Accredited Test Laboratory (ATL) in terms of the ARP 0108: "Regulatory Requirements for Explosion-Protected Apparatus"

1. OVERVIEW

Equipment and systems covered by this Certificate are as follows:

The intrinsically safe and rugged industrial tablet IS930.M1 has been designed for use in mines susceptible to firedamp. The IS930.M1 provides numerous technologies like 4G (LTE), NFC, GPS, Wi-Fi and Bluetooth LE. Equipped with an Android operating system, amplified loudspeaker and option keys, which allows the allocation of user specific functions or applications.

2. REASON FOR REVIEW

Revision 0: ARP 0108 Requirement (Initial IA Certificate).

Revision 1: Renewal of IA Certificate.

3. DOCUMENTATION PROVIDED

- IECEx Quality Assessment Report (IECEx EPS 19.0063 X Issue 2).
- IECEx Certificate of Conformity (DE/EPS/QAR12.0003/14).

4. ELECTRICAL/ AND SAFETY PARAMETERS

Electrical data:

Supply: The tablet IS930.M1 has a fixed installed rechargeable Li-Ion battery $U_o = 3.8 \text{ V}$ ($U_o_{\text{max}} = 4.2 \text{ V}$).

Interfaces: The opening of the interface covers in explosive atmospheres is not permitted.

Wired data connection and charging is only allowed outside ex-hazardous areas.

$U_m = 5.88 \text{ V}$, this is ensured by using the Docking Station DS930.1, the i.safe PROTECTOR cables or other accessories specified by i.safe MOBILE GmbH. A list of approved accessories can be found at www.isafe-mobile.com.

The SD cards IS-SD164.1 and IS-SD1128.1 may be used in the corresponding slot in the hazardous area.

Alternatively, the SD card port has the following intrinsic safety entity parameters:

U_o	=	4.2 V
I_o	=	4.72 A
P_o	=	1.101 W
C_o	=	117 μF
L_o	=	2 μH

SIM cards which comply with the following intrinsic safety entity parameters, may be used in the corresponding slot in the hazardous area:

U_o	=	4.2 V
I_o	=	4.72 A
P_o	=	2.142 W
C_o	=	118 μF
L_o	=	2 μH

5. INSTALLATION INSTRUCTIONS

None.

6. SPECIAL CONDITIONS OF USE (X)

- The battery may be charged and replaced outside explosion hazardous areas only.
- The device must be protected from impacts with high impact energy, against excessive UV light emission and high electrostatic charge processes.
- The device shall be protected from the exposure of oils, greases, and hydraulic fluids.
- The permitted ambient temperature range is -20 °C to +60 °C
- A maximum of 500mW transmitting power limit applies for Group I use.

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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