



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: 2022/08/19
Expire: 2025/08/19
Revision: 0
Job File: 1886

Applicant:

i.safe MOBILE GmbH

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

IA Number: MTEEx-S/22.0367 X
Equipment: intrinsically safe, rugged scan trigger handle
Manufacturer: i.safe MOBILE GmbH
Supplier: i.safe MOBILE GmbH
Model/Type: IS-TH1xx.1
Ex Rating: Ex ib op is IIC T4 Gb
Ex ib op is IIIC T135°C Db
Serial No.: All units imported between Issued and Expiry dates of this Certificate.

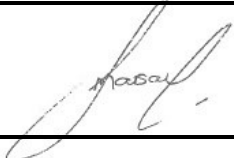

Standards used:

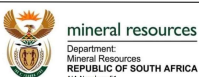
SANS 60079-0: 2019 Ed.6 IEC 60079-0: 2017 Ed.7	Explosive atmospheres – Part 0: General requirements.
SANS 60079-11: 2012 Ed.4 IEC 60079-11: 2011 Ed.6	Explosive atmospheres – Part 11: Equipment protection by intrinsic safety "i".
SANS 60079-28: 2016 Ed.1 IEC 60079-28: 2015 Ed.2	Explosive atmospheres – 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.

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 date

Reviewed by + Signature (ExTL):	L. Marsau	
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"

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Template Ref: MTEExDOC 101 Rev 8
(2022/06/27)

Print Date: 2022-08-19
Page 1 of 2

1. OVERVIEW

The IS-TH1xx.1, has been designed for the use in explosion hazardous areas of Zone 1 and 21. In combination with mobile communication devices, the multifunctional set enables quick and easy scanning of any 1D or 2D barcodes at close range or at distances of more than 15 meters.

2. REASON FOR REVIEW

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

3. DOCUMENTATION PROVIDED

- IECEx – Type Examination Certificate (IECEx EPS 20.0075 X Issue 0).
- Quality Assessment Report (DE/EPS/QAR12.0003/13).

4. ELECTRICAL / SAFETY PARAMETERS

The supply and interface connection of the IS-TH1xx.1 is carried out via the ISM interface of the compatible communication devices. The IS-TH1xx.1 is certified in combination with the IS530.1 or other mobile devices that comply with the connection parameters in accordance with document 1040AD04.

Scan engine variants of IS-TH1xx.1	
IS-TH1SR.1	Standard range Scan Engine Zebra SE4750SR
IS-TH1MR.1	Mid-range Scan Engine Zebra SE4750MR
IS-TH1ER.	Extended range Scan Engine Zebra SE4850ER

5. INSTALLATION INSTRUCTIONS

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

6. CONDITIONS OF CERTIFICATE (X)

- The 13-pin connector of the IS-TH1xx.1 may only be assembled or disassembled from the ISM interface outside hazardous areas.
- The device must be protected from impacts with high impact energy, against excessive UV light emission and high electrostatic charge processes.
- The permitted ambient temperature range is -20 °C to +60 °C.

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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