



# IECEX Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit [www.iecex.com](http://www.iecex.com)

Certificate No.: IECEx EPS 16.0052X Issue No: 0 Certificate history:  
Issue No. 0 (2017-03-20)

Status: Current Page 1 of 3

Date of Issue: 2017-03-20

Applicant: i.safe MOBILE GmbH  
i\_Park Tauberfranken 10  
97922 Lauda-Koenigshofen  
Germany

Equipment: IS-MP.1 RFID and NFC mobile reader  
Optional accessory:

Type of Protection: intrinsic safety "i"

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

Approved for issue on behalf of the IECEx  
Certification Body:

Holger Schaffer

Position:

Manager Certification

Signature:  
(for printed version)

Date:

2017-03-20



1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting the [Official IECEx Website](http://www.iecex.com).

Certificate issued by:

**Bureau Veritas Consumer Products Services Germany GmbH**  
Businesspark A96  
86842 Türkheim  
Germany





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Manufacturer: **i.safe MOBILE GmbH**  
i\_Park Tauberfranken 10  
97922 Lauda-Koenigshofen  
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 electrical 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 Explosive atmospheres - Part 0: General requirements  
Edition:6.0

IEC 60079-11 : 2011 Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"  
Edition:6.0

*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:

[DE/EPS/ExTR16.0052/00](#)

#### Quality Assessment Report:

[DE/EPS/QAR12.0003/03](#)



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## Schedule

### EQUIPMENT:

*Equipment and systems covered by this certificate are as follows:*

The IS-MP.1 is an intrinsically safe and rugged RFID + NFC mobile reader for the use in hazardous areas of zone 1 and 21.

If RFID/NFC TAGs are mounted very close to each other or placed in the corner the small reading tip of the IS-MP.1 makes it possible to read the tags, so every equipment can be easily identified. Inside hazardous areas the information can be read directly at the 4 row OLED display and transferred by Bluetooth. Outside hazardous areas the storage can be read by USB.

The IS-MP.1 is reading from passive TAGs with different frequency combinations.

- LF 125 kHz
- LF 134.2 kHz FDX-B + HDX
- HF and NFC 13.56 MHz
- UHF 868 MHz

Different frequency configurations are possible.

### Electrical data:

**Supply:** The IS-Mp.1 has a fixed installed rechargeable battery.

**Interface:** USB interface for charging battery and data transfer.

Data connection and charging is only allowed outside ex-hazardous areas and only with the i.safe MOBILE i.safe PROTECTOR USB cable or other accessories specified by i.safe MOBILE GmbH. Opening the interface covers in explosive atmospheres is not permitted.

### SPECIFIC CONDITIONS OF USE: YES as shown below:

The battery pack may be charged outside ex-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 permitted ambient temperature range is -20 °C to +60°C.