

(1) **EU - Type Examination Certificate**

(2) Equipment and protective systems intended for use in potentially explosive atmospheres – Directive 2014/34/EU

(3) EU - Type Examination Certificate Number

EPS 17 ATEX 1 062 X

Revision 0

(4) Equipment: IS520.1 intrinsically safe smartphone

(5) Manufacturer: i.safe MOBILE GmbH

(6) Address: i_Park Tauberfranken 10
97922 Lauda-Koenigshofen
Germany

(7) This equipment and any acceptable variation thereto are specified in the annex to this certificate and the documentation therein referred to.

(8) Bureau Veritas Consumer Products Services Germany GmbH, notified body No. 2004 in accordance with Article 21 given in the Directive 2014/34/EU of the European Parliament and of the Council of 26 February 2014, certifies that this equipment has been found to comply with the essential health and safety requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres, given in Annex II of the Directive. The examination and test results are recorded in the confidential documentation under the reference number 17TH0237.

(9) Compliance with the essential health and safety requirements has been assured by compliance with:

EN 60079-0:2012+A11:2013


EN 60079-11:2012

(10) If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the annex to this certificate.

(11) This EU - Type Examination Certificate relates only to the design and examination of the specified equipment in accordance with Directive 2014/34/EU. Further requirements of this Directive apply to the manufacture of this equipment and its placing on the market. Those requirements are not covered by this certificate.

(12) The marking of the equipment shall include the following:

 II 2G Ex ib IIC T4 Gb

 II 2D Ex ib IIIC T135°C Db IP6X

Certification department of explosion protection

Nuremberg, 2018-01-09



H. Schaffer



(13)

Annex

(14) EU - Type Examination Certificate EPS 17 ATEX 1 062 X

Revision 0

(15) Description of equipment:

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.

Electrical data:

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 $U_0 = 3,8V$ ($U_{0_max} = 4,35V$) / 3,6Ah / 13,68Wh

Interface The smartphone has an USB interface for charging and data transfer and additional magnetic charging port contacts 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.

(16) Reference number: 17TH0237

(17) Special conditions for safe use:

The battery may be charged 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 permitted ambient temperature range is $-20^{\circ}C$ to $+60^{\circ}C$.

(18) Essential health and safety requirements:

Met by compliance with standards.



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Nuremberg, 2017-01-09