

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

Certificate No.:

IECEX EPS 19.0032X

Issue No: 0

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Certificate history:

Issue No. 0 (2019-07-22)

Status:

Current

Date of Issue:

Applicant:

2019-07-22

Pepperl+Fuchs AG Lilienthalstrasse 200 68307 Mannheim

Germany

Equipment:

Intrinsically Safe Smartphone - Smart-Ex 02 *** DZ2

Optional accessory:

Type of Protection:

intrinsic safety

Marking:

Exic IIC T4 Gc IP64

Ex ic IIIC T120°C Dc

Approved for issue on behalf of the IECEx

Certification Body:

Position:

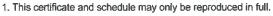
Signature: (for printed version)

Date:

Holger Schaffer

Certification Manager

2019-07-22



- 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.

Certificate issued by:

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





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Manufacturer:

Pepperl+Fuchs AG Lilienthalstrasse 200 68307 Mannheim Germany

Additional Manufacturing location(s):

ecom instruments GmbH Industriestrasse 2 97959 Assamstadt Germany This product may be manufactured at all additional manufacturing locations/product sites listed in DE/PTB/QAR06.0008 and having congruent types of protection and congruent product types as defined in this certificate.

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 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: 2017

Explosive atmospheres - Part 0: Equipment - General requirements

Edition:7.0

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/ExTR19.0030/00

Quality Assessment Report:

DE/PTB/QAR06.0008/10

DE/PTB/QAR07.0004/05



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The intrinsically safe Smartphone of type Smart-Ex 02 *** DZ2 is communication device intended for use in hazardous areas of zones 2 and 22. The device provide additional features such as camera, GPS, NFC, acceleration sensor, WiFi, Bluetooth, vibration motor, headphone connector, magnetic sensor and flash-light. Different integrated antennas can be used for the usual cellular systems. The device is equipped with an exchangeable Li-lon battery unit. Charging and wired data transfer is done via the magnetic USB-connector in ordinary locations only.

Electrical data

Supply:

Two rechargeable built-in Li-Ion batteries in parallel

Battery pack Ex-BP S02 nominal data: 3.7 V, 4400 mAh, 16.28 Wh or Battery pack Ex-BP S02C nominal data: 3.7 V, 3920 mAh, 14.5 Wh

Charging and Wired data transfer:

Um = 6 V, outside of classified hazardous locations only

SPECIFIC CONDITIONS OF USE: YES as shown below:

Ambient temperature range: -20°C ≤ Ta ≤ +60°C

The battery pack is only allowed to be charged and replaced outside of the classified hazardous location.

It must be ensured that the power supply for charging fulfills the requirements for SELV or PELV and Um = 6V.

The Battery-Cover for SIM/SD card and battery-pack access must be mounted and screwed tight before entering the hazardous location.

The device has to be protected against high energy impacts.

The device shall not be used in close proximity to processes producing high electrostatic charges.

The device shall not be repaired or dismantled (except the Battery-Cover in ordinary locations).

It is allowed to use the 3.5 mm Audio Plug in the hazardous locations for connections to certified accessory meeting the following entity parameters:

Ui = 4.2 V / fi = 50 mA / Pi = 100 mW / Co = 5.6 μF / Lo = 680 μH