



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: **IECEX EPS 22.0014X** Page 1 of 3 [Certificate history:](#)

Status: **Current** Issue No: 0

Date of Issue: 2022-09-07

Applicant: **Pepperl+Fuchs SE**
Lilienthalstrasse 200
68307 Mannheim
Germany

Equipment: **Tab-Ex 03 DZ1 WiFi and Tab-Ex 03 DZ1 WWAN Flameproof Tablet Computer Enclosure**

Optional accessory: Samsung S Pen

Type of Protection: **db, ia, tb**

Marking: Ex db ia IIC T6 Gb IP64
Ex tb ia IIIC T80°C Db

Approved for issue on behalf of the IECEx
Certification Body:

Ulrich Feike

Position:

Head of Certification

Signature:
(for printed version)

Date:
(for printed version)

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.
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Certificate issued by:

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





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Manufacturer: **Pepperl+Fuchs SE**
Lilienthalstrasse 200
68307 Mannheim
Germany

Manufacturing
locations: **ECOM Instruments GmbH**
Industriestrasse 2
97959 Assamstadt
Germany

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 equipment 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 60079-1:2014-06](#) Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:7.0

[IEC 60079-11:2011](#) Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition:6.0

[IEC 60079-31:2022-01](#) Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure "t"
Edition:3.0

This Certificate **does not** indicate compliance with 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/ExTR22.0013/00](#)

Quality Assessment Report:

[DE/PTB/QAR06.0008/17](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The Tab-Ex 03 DZ1 WiFi and Tab-Ex 03 DZ1 WWAN are tablet computers for industrial applications in hazardous areas of Zone 1/21 with gaseous and dust atmospheres.

The flameproof enclosure contains a single Samsung Galaxy Tab Active 3 tablet and intrinsically safe circuits that allow for safe USB-C connections and external user button interfaces.

User access to the SIM and SD-Card ports is possible in the safe area only via a flameproof cover that is mechanically secured to the side of the enclosure.

The intrinsically safe USB-C data connection facility is designed to be used in the hazardous area under observance of the defined entity parameter. Charging via the same port is only allowed in the non-hazardous area.

The equipment incorporates an intrinsically safe Samsung S-Pen stylus which can be used in the hazardous area by the end user.

Electrical data:

Battery powered

Nominal/rated battery data: 3.85 VDC, 4900 mAh, 18.87 Wh

Accessory:

Samsung S Pen – ECOM Type ST T03 X2

SPECIFIC CONDITIONS OF USE: YES as shown below:

- Ambient temperature range: $-20\text{ °C} \leq T_a \leq +55\text{ °C}$
- The flameproof joints shall not be repaired.
- The device shall be protected against high energy impacts.
- The device shall not be used in close proximity to processes producing high electrostatic charges.

- Entity parameter for USB-C interface for use in hazardous locations:

$U_o = 5.6\text{ V}$	$I_o = 500\text{ mA}$	$P_o = 600\text{ mW}$	$C_o = 1\text{ }\mu\text{F}$	$L_o = 1\text{ }\mu\text{H}$
$U_i = 5.6\text{ V}$	$I_i = 100\text{ mA}$	$P_i = 100\text{ mW}$	$C_i = 53\text{ }\mu\text{F}$	$L_i = 0\text{ }\mu\text{H}$