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 24.0082X**	Page 1 of 3	Certificate history:
Status:	**Current**	Issue No: 0	
Date of Issue:	2024-12-17		
Applicant:	**Pepperl+Fuchs SE** Lilienthalstrasse 200 68307 Mannheim **Germany**		
Equipment:	**Flameproof Tablet Computer Enclosure, types Tab-Ex 05 DZ1 WiFi and Tab-Ex 05 DZ1 WWAN**		
Optional accessory:			
Type of Protection:	**db, ia, tb**		
Marking:	Ex db ia IIC T6 Gb 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.
3. The Status and authenticity of this certificate may be verified by visiting www.iecex.com or use of this QR Code.

Certificate issued by:

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

IECEx Certificate of Conformity

Certificate No.: **IECEx EPS 24.0082X** Page 2 of 3

Date of issue: 2024-12-17 Issue No: 0

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 Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:7.0

IEC 60079-11:2023 Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition:7.0

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

IEC 60079-31:2022 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/ExTR22.0013/02

Quality Assessment Report:

DE/PTB/QAR06.0008/21

IECEx Certificate of Conformity

EQUIPMENT:
Equipment and systems covered by this Certificate are as follows:

The Tab-Ex 05 DZ1 WiFi and Tab-Ex 05 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 5 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.

Ambient temperature range: -20 °C ≤ Ta ≤ +55 °C

Powered by a secondary battery: 3.85 V DC, 4900 mAh, 18.87 Wh

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

U_o = 5.6 V	I_o = 500 mA	P_o = 600 mW	C_o = 1 µF	L_o = 1 µH
U_i = 5.6 V	I_i = 100 mA	P_i = 100 mW	C_i = 53 µF	L_i = 0 µH

Optional Accessories:

S Pen type ST T05 X2
Leather case type LC T05 X1
Chest Harness type CH T05 X1
Belt clip type BC T01
Carrying strap CS T05
Tether for stylus pen type ST 01

SPECIFIC CONDITIONS OF USE: YES as shown below:

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.

Charging and SIM/SD-Card replacement are only allowed in ordinary (non-hazardous) locations.

The device may only be charged in a temperature range of -5 °C to +55 °C.

Charging and wired data-transfer via the USB-C interface is limited to a maximum Um of 30 V and a maximum current of 50 A.

It must be ensured that the power plug/supply used for charging is a non-shock hazard extra low voltage equipment e.g. SELV, PELV or ES1 as per IEC 62368-1 (former IEC 60950-1) or equivalent.

The following spare part is allowed to be replaced by the end user:

USB-C Cover Tab-Ex 03 DZ1 (compatible with Tab-Ex 05 DZ1)

Repairs are to be conducted by the manufacturer or an authorized service center.