



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 20.0050X** Page 1 of 3 [Certificate history:](#)

Status: **Current** Issue No: 0

Date of Issue: 2020-07-24

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

Equipment: **Intrinsically safe Tablet Computer Tab-Ex Pro DZ2 ******

Optional accessory:

Type of Protection: **intrinsic safety**

Marking: Ex ic IIC T5 Gc
Ex ic IIIB T80°C Dc

Approved for issue on behalf of the IECEx
Certification Body:

Holger Schaffer

Position:

Certification Manager

Signature:
(for printed version)

Date:

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





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Manufacturer: **ecom instruments GmbH**
Industriestrasse 2
97959 Assamstadt
Germany

Additional manufacturing locations: **Pepperl+Fuchs Manufacturing Inc.**
502 Cane Island Parkway
Katy, Texas 77494
United States of America

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

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/ExTR20.0051/00](#)

Quality Assessment Reports:

[DE/PTB/QAR06.0008/11](#)

[US/UL/QAR07.0005/15](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The Tab-Ex Pro DZ2 WiFi and Tab-Ex Pro DZ2 WWAN are tablet computers for industrial applications in hazardous areas of Zone 2/22 with gaseous and dust atmospheres.

Electrical data: 3.8 V, 7400 mAh

Ambient temperature range: $-20\text{ }^{\circ}\text{C} \leq T_a \leq +55\text{ }^{\circ}\text{C}$

SPECIFIC CONDITIONS OF USE: YES as shown below:

Before entering the hazardous location the device shall be inspected for signs of damage on the enclosure. If damage is visible do not use the device in the hazardous location until it is repaired by an authorized service center.

The device enclosure is tested against the low impact energy for Group II and III.

The device must be protected from excessive UV light exposure.

Before entering the hazardous location the conductive coating on the Ex-protective case shall be inspected. If the coating is removed or damaged for more than 2000mm² (~50mm diameter, contiguous) the rear cover must be withdrawn from use in the hazardous locations.

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

Charging and wired data connection via USB and POGO port (Keyboard dock port) is only allowed in ordinary (non-hazardous) locations.

Battery pack or SD/SIM-Card replacement is only allowed in ordinary (non-hazardous) locations.

It must be ensured that the power plug used fulfills SELV or PELV requirements with an Um of 10V.

Intrinsically safe audio accessory certified for use in hazardous locations must match with the entity parameter of the earphone jack.

Earphone jack output parameter: $U_o = 3.0\text{ V} / I_o = 250\text{ mA} / P_o = 150\text{ mW} / C_o = 7\text{ }\mu\text{F} / L_o = 1500\text{ }\mu\text{H}$

Earphone jack input parameter: $U_i = 3.0\text{ V} / I_i = 0\text{ mA} / P_i = 0\text{ mW} / C_i = 1\text{ }\mu\text{F} / L_i = 1\text{ }\mu\text{H}$