



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 18.0029X

Issue No: 0

Certificate history:

Issue No. 0 (2018-04-23)

Status: Current

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Date of Issue: 2018-04-23

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

Equipment: Tablet-Computer Tab-Ex 02 Z2 WIFI, Tab-Ex 02 Z2 WWAN, Tab-Ex 02 DZ2 WiFi and
Tab-Ex 02 DZ2 WWAN

Optional accessory:

Type of Protection: **intrinsic safety**

Marking:

Ex ic IIC T5 Gc

Ex ic IIIB T100°C Dc

Approved for issue on behalf of the IECEx
Certification Body:

Holger Schaffer

Position:

Haed of Certification

Signature:

(for printed version)

Date:

2018-04-23



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 the [Official IECEx Website](http://www.iecex.com).

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 location(s):

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/ExTR18.0026/00

Quality Assessment Report:

DE/PTB/QAR07.0004/04



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The Tab-Ex 02 Z2 * and Tab-Ex 02 DZ2 * are tablet computers for industrial applications in hazardous areas of Zone 2/22 with gaseous and dust atmospheres.

Electrical data: 3.8 V / 4450 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 damages are visible do not use the device in hazardous locations until it is repaired by an authorized service center.

Before entering the hazardous location the conductive coating on the „Ex-protective cover“ shall be inspected. If the conductive coating is removed or damaged for more than 2000 mm² (~50 mm diameter) the „Ex-protective cover“ must be replaced with a new „Ex-protective cover“.

Charging and wired data connection (USB; POGO Pins) is only allowed in safe (non-hazardous) locations. The power supply unit and USB connected device used must match with the Tab-Ex 02* U_m of 6V.

It is only allowed to exchange the battery and SIM/SD-card in safe (non-hazardous) locations. The device may only be used with Samsung battery EB-BT365BB*.

The device shall be protected against strong impacts, against permanent UV light and high electrostatic charge generating processes.

The In-ear-headset of type Samsung EHS64AVFWE can be used with the Tab-Ex 02* in the hazardous location. Other intrinsically safe wired audio accessory must match with the entity parameter of the Tab-Ex 02* audio jack:

Audio Jack output parameter		Audio Jack input parameter	
U _o	3.2 V	U _i	0 V
I _o	150 mA	I _i	0 mA
P _o	100 mW	P _i	0 mW
C _i	1.4 μF	C _o	5 μF
L _i	100 μH	L _o	3.9 mH