



1 **EC TYPE-EXAMINATION CERTIFICATE**

2 Equipment intended for use in Potentially Explosive Atmospheres Directive 94/9/EC

3 Certificate Number: **Sira 15ATEX1205X** Issue: **0**

4 Equipment: **Tab-Ex 01 DZ1 * Flameproof Tablet Enclosure**

5 Applicant: **ecom Instruments GmbH**

6 Address: **Industriestrasse 2
97959 Assamstadt
Germany**

7 This equipment and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

8 Sira Certification Service, notified body number 0518 in accordance with Article 9 of Directive 94/9/EC of 23 March 1994, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in the confidential reports listed in Section 14.2.

9 Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the schedule to this certificate, has been assured by compliance with the following documents:

EN 60079-0:2012 +A11 EN 60079-1:2014 EN 60079-11:2012 EN 60079-28:2007 EN 60079-31:2014

The above list of documents may detail standards that do not appear on the UKAS Scope of Accreditation, but have been added through Sira's flexible scope of accreditation, which is available on request.

10 If the sign 'X' is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the schedule to this certificate.

11 This EC type-examination certificate relates only to the design and construction of the specified equipment. If applicable, further requirements of this Directive apply to the manufacture and supply of this equipment.

12 The marking of the equipment shall include the following:

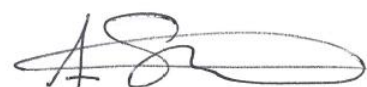


II 2 GD

Ex db ia op is IIC T5 Gb

Ex tb IIIC T100°C Db

Ta = -20°C to +50°C



A C Smith
Certification Manager

Project Number 70024077

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Sira Certification Service
Unit 6, Hawarden Industrial Park,
Hawarden, CH5 3US, United Kingdom



SCHEDULE

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13 DESCRIPTION OF EQUIPMENT

The Tab-Ex 01 DZ1 * Flameproof Tablet Enclosure comprises a Samsung Galaxy Tab Active tablet, which is contained within a hardened plastic flameproof enclosure with a toughened glass window. The flameproof enclosure has the same number of side function keys as the original tablet, which are also located in the same position and use push rods in cylindrical flamepaths to actuate the tablet keys.

The flameproof enclosure is further encased in an anti-static plastic enclosure, which houses function keys identical to the ones on the top of the original tablet. These keys are connected to the tablet via an intrinsically safe connection and perform the same function as the originals.

The anti-static enclosure has an intrinsically safe battery charging and data connection facility at the bottom end of the enclosure, which is not to be used in a hazardous area.

There are two different variants of the equipment, which are based on the available types of Samsung Galaxy TAB Active tablets. The types are:

Type Designation	Description
Tab-Ex 01 DZ1 Wifi	Wifi only version based on the Samsung Galaxy Tab Active SM-T360
Tab-Ex 01 DZ1 WWAN	Wifi and WWAN version based on the Samsung Galaxy Tab Active SM-T365

The tablets are based on standard Samsung models, with the main modification being some additional battery protection circuitry. The two tablet variations therefore have the following features.

Features		Tab-Ex 01 DZ1 WWAN	Tab-Ex 01 DZ1 Wifi
8.0 inch display 800x1280 pixels		ü	ü
Quad core processor 1200MHz		ü	ü
1536MB RAM / 16GB storage / microSD		ü	ü
Battery capacity 4450mAh		ü	ü
Micro USB 2.0		ü	ü
SIM card holder		ü	
WWAN	GSM: 850/900/1800/1900 MHz	ü	
	UMTS: 850/900/1900/2100 MHz	ü	
	LTE: 900/1800/2100/2600 MHz	ü	
Bluetooth: 4.0		ü	ü
Wi-Fi: 802.11 a/b/g/n		ü	ü
Accelerometer and Light Sensor		ü	ü
Rear Camera 3.1 megapixels with autofocus		ü	ü
Front Camera 1.2 megapixels		ü	ü
Multi-Touchscreen		ü	ü
GPS, A-GPS, Glonass, NFC		ü	ü
Android OS		ü	ü



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14 DESCRIPTIVE DOCUMENTS

14.1 Drawings

Refer to Certificate Annexe.

14.2 Associated Sira Reports and Certificate History

Issue	Date	Report number	Comment
0	23 October 2015	R70024077A R70024077B	The release of the prime certificate.

15 SPECIAL CONDITIONS FOR SAFE USE (denoted by X after the certificate number)

15.1 The equipment shall only be used in areas with a low risk of mechanical impact.

15.2 The equipment shall not be opened by the end user for any reason; if either of the equipment's enclosures are opened or damaged, the following conditions apply:

- The equipment shall be removed from the explosive atmosphere immediately and will not be suitable for re-use until it is repaired by the OEM.
- If the outer enclosure is damaged, precautions shall be taken to ensure that the internal flameproof enclosure is not subject to static charging.
- If the inner flameproof enclosure is opened, the equipment shall never be used in an explosive atmosphere unless it has been repaired and re-sealed by the OEM.

15.3 Electrical connections to the equipment are not permitted in the hazardous area.

15.4 When the ambient temperature is greater than +45°C the integrated LED shall only be used (powered) for individual periods of up to 10 minutes, with a total of no more than 1 hours use per day.

16 ESSENTIAL HEALTH AND SAFETY REQUIREMENTS OF ANNEX II (EHSRs)

The relevant EHSRs that are not addressed by the standards listed in this certificate have been identified and individually assessed in the reports listed in Section 14.2.

17 CONDITIONS OF CERTIFICATION

17.1 The use of this certificate is subject to the Regulations Applicable to Holders of Sira Certificates.

17.2 Holders of EC type-examination certificates are required to comply with the production control requirements defined in Article 8 of directive 94/9/EC.

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