





THIS CERTIFICATE IS ISSUED AS AN I.A. CERTIFICATE IN TERMS OF THE MINE HEALTH AND SAFETY ACT, ACT NO 29 OF 1996 (AND REGULATIONS), THE OCCUPATIONAL HEALTH AND SAFETY ACT (ACT 85 OF 1993) AND REGULATION 17 OF THE ELECTRICAL MACHINERY REGULATIONS

IA CERTIFICATE	MASC S/23-8420X	Issue	0			
Issue Date	5 September 2023	Expiry Date	23 July 2024			
** Based on Certificate No	IECEx EPS 22.0014X Issue / Variations / Amendment 0					
Requested by	Pepperl+Fuchs (Pty) Ltd Zerwick Forum, 8 Glen Eagle Office Park Cnr Monument Rd and Braambos St,					
	Glen Erasmia, Kempton Park 1619, South Africa					
Manufacturer	Pepperl+Fuchs SE					
	Lilienthalstrasse 200, 68307	Mannneim				
Description	Germany The Tab-Ex 03 DZ1 WiFi and Tab-Ex 03 DZ1 WWAN are tablet computers for industrial					
Description	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.					
Equipment	See Base Certificate** for ele Flameproof Tablet		Ex 03 DZ1 WiFi and Tab-Ex 03 DZ1 WWAN			
-deibinour	Computer Enclosure	1 I AD-L				
MARKING:	Туре:	Tab-Ex 03 DZ1	WiFi and Tab-Ex 03 DZ1 WWAN Flameproof			
Original marking as per		Tablet Compute	er Enclosure			
certificate ** remains	Ex Marking:	Ex db ia IIC T6				
applicable.		Ex tb ia IIIC T80°C Db				
IA number must be added.	in that the official sector of the sector of		20X (To be additionally marked on equipment)			
Quality Assurance report (Warnings:	DE/PTB/QAR06	icate ** (original marking must be applied)			
Quality Assurance report (AR) / Notification (QAN):	23 July 2024	5.0008/19			
Expiry date:		20 July 2024				
Standards: • SANS (IEC) 60079-0: • SANS (IEC) 60079-1: • SANS (IEC) 60079-11: • SANS (IEC) 60079-31: Note: This certificate covers	2012 Equipment - Genera 2015 Equipment protection 2012 Equipment protection 2022 Equipment dust ign only the listed standards and do ensure that the product complien use "X": for more details.	al requirements on by flameproof e on by intrinsic safe ition protection by loes not imply com	ty "i" enclosure "t" pliance to any other standard, related or inferred. It			
C. WELTH TECHNICAL S		sold as long as the QAR	N. VILOJEN TECHNICAL OFFICER			
According to the relevant requirement		uction units of explosion	protected equipment are required to comply with third party quality			
	SANS to Any conditions men Any relevant rec Any restrictions and conditions enfo inspector (Group I equipment) or ch	which shall be adhere 0086 requirements; titioned in the above c quirements of the MHS orced by the chief insp nief inspector of factor	d to: ertificate; S Act; pector of mines, principal ries (Group II equipment).			
	The certificate is not transferable a		erty of the issuing body.			
	Unit 5 Lelyta Park, 45	face Certification (Pty Jurg Avenue, Hennops enturion 0 157				

Centurion 0 157

IA CERTIFICATE: MASC S/23-8420X Equipment: Flameproof Tablet Computer Enclosure (Expiry date: 23 July 2024)

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ANNEX A

This document is based on and must be read in conjunction with certificate IECEx EPS 22.0014X.							
Description (According to Base Certificate) **							
"Refer to description in	"Refer to description in Base Certificate ** (and any applicable schedules/issues/variations)."						
Standard compliance	See Base Certificate **						
Special conditions of safe use ("X")	 Ambient temperature range: -20 °C ≤ Ta ≤ +55 °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: Uo = 5.6 V Io = 500 mA Po = 600 mW Co = 1 µF Lo = 1 µH Ui = 5.6 V Ii = 100 mA Pi = 100 mW Ci = 53 µF Li = 0 µH 						
Conditions of manufacture	None.						
Conditions of Certification	 This IA Certificate covers all units sold from the date of this document to the expiry date of this certificate. As per ARP 0108 a maximum three yearly review is required on this IA Certificate (expiry is determined as per the QAR/QAN/QMS expiry date). The apparatus must be additionally marked with the MASC marking details above. This approval only covers the equipment as certified above and does not include any scheduled additions or variations / amendments / new issues to the certificate(s), made after the above date. The equipment does not need to be re-tested when used on the conditions and with such restrictions as prescribed by the certificate on which this IA Certificate is based and any other conditions in this IA Certificate. The extent of the requirements in the ARP 0108 (or regulations), SANS 10108 and any other applicable regulations on the certification of the equipment must remain unchanged. The Ex-quality assurance notification/report for the equipment must remain valid. 						
Conclusion:	 From the above and the selective examination of the documentation, nothing contrary to the requirements of the applicable standards was found, provided that the equipment / component is used as described in the above document / certificate and according to the MASC conditions below. A MASC IA certificate is issued based on the work done as per the Base Certificate **. The routine tests for production units according to the Base Certificate ** must be complied with (if applicable). 						

This document is issued based on Mining And Surface Certification's Standard Contract terms and conditions available on request.

While every endeavour is made to ensure that a test / assessment / inspection is representative and accurately performed, and that a report / certificate is accurate in the quoted results and conclusions drawn from the test / assessment / inspection, MASC or its directors/employees shall in no way be liable for any error made in carrying out the test / assessment or for any erroneous statement, whether in fact or in opinion, contained in a report / certificate issued pursuant to a test / assessment / inspection.

MASC takes no responsibility for any non-conformances, exclusions, or any results / assessments / inspections not in compliance with the standards. By marking the equipment in accordance with the documentation / standard, the manufacturer / applicant attests on his own responsibility that the equipment / installation has been designed and constructed in accordance with the applicable requirements of the relevant standards and documentation, that the routine verifications / routine tests have been correctly completed and the equipment / installation complies with the documentation, that the

This document is only for use and application in South Africa. It is issued based on National interpretations and accepted practices.



Germany

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 WWA	AN Flameproof Tablet Computer Enclos	ure
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		
	a babali of the ITOTy		
Approved for issue or Certification Body:	n behalf of the IECEX	Ulrich Feike	
Position:		Head of Certification	
Signature: (for printed version)			
Date: (for printed version)			
2. This certificate is not	chedule may only be reproduced in full. transferable and remains the property of the issuing body. enticity of this certificate may be verified by visiting www.iec	ex.com or use of this QR Code.	
Certificate issued Bureau Veritas Businesspark AS 86842 Türkheim Germany	s Consumer Products Services Germany	/ GmbH	BUREAU VERITAS



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 Edition:7.0	Explosive atmospheres - Part 0: Equipment - General requirements
IEC 60079-1:2014 Edition:7.0	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
IEC 60079-11:2011 Edition:6.0	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
IEC 60079-31:2022 Edition:3.0	Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure "t"
	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



IECEx Certificate of Conformity

Certificate No .:

IECEx EPS 22.0014X

Date of issue:

2022-09-07

Issue No: 0

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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 °C ≤ Ta ≤ +55 °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:

Uo = 5.6 V	lo = 500 mA	Po = 600 mW	Co = 1 µF	Lo = 1 µH
Ui = 5.6 V	li = 100 mA	Pi = 100 mW	Ci = 53 µF	Li = 0 µH