



## Mining And Surface Certification (Pty) Ltd 2015/021934/07

IA CERTIFICATE Issue Date			
Issue Date	MASC S/24-8640X	Issue	0
	10 December 2024	Expiry Date	10 December 2027
** Based on Certificate No	IECEx EPS 23.0079X 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 Mannheim, Germany		
Description	The Tab-Ex 04 Pro DZ2 is an intrinsically safe tablet computer. The Tab-Ex 04 Pro expands the Tab-Ex series as the world's first and only 10-inch, 5G Android tablet. The rugged, highly secure tablet is based on Samsung's state-of-the-art Galaxy Tab Active4 Pro and comes in a slim and lightweight design. The tablet's 10-inch screen is ideal for demanding applications.		
Equipment	Tablet computer	Type Tab-	Ex 04 Pro DZ2 (WiFi/WWAN)
MARKING:	Туре:	Tab-Ex 04 Pro I	DZ2 (WiFi/WWAN)
Original marking as per	Ex Marking:	Ex ic IIC T5 Gc	
certificate ** remains		Ex ic IIIC T135°	C Dc
applicable.		-20 °C ≤ Ta ≤ +	55 °C
IA number must be added.	IA Number:	MASC S/24-864	40X (To be additionally marked on equipment)
	Warnings:		ficate ** (original marking must be applied)
Quality Assurance report (0	QAR) / Notification (QAN)	DE/PTB/QAR06	5.0008/21
Quality Assurance report (C Expiry date:		23 July 2027	
is up to the manufacturer to Special conditions of safe u	ensure that the product compli		pliance to any other standard, related or inferred. It
Refer to Annex A below			andards for the application.
Refer to Annex A below     Conditions of manufacture:     Refer to Annex A below	for more details.		
Conditions of manufacture	for more details. for more details.		BJDe Wet
Conditions of manufactures • Refer to Annex A below	for more details. for more details.		Bdelitet
Conditions of manufacture	for more details.		
Conditions of manufactures • Refer to Annex A below S.Jord TECHNICAL S	for more details. for more details.	duction units of explosion	B.J De Wet TECHNICAL OFFICER /QAN remains valid. protected equipment are required to comply with third party quality
Conditions of manufactures • Refer to Annex A below S.Jord TECHNICAL S	for more details. for more details. for more details.	duction units of explosion <u>e or batch testing by an</u> tions is subject to the fo which shall be adhered	A second state of the seco
Conditions of manufactures • Refer to Annex A below S.Jord TECHNICAL S	for more details. for more details. for more details.	duction units of explosion <u>e or batch testing by an</u> tions is subject to the fo	An end of the second se

Any conditions mentioned in the above certificate; Any relevant requirements of the MHS Act; Any restrictions and conditions enforced by the chief inspector of mines, principal inspector (Group I equipment) or chief inspector of factories (Group II equipment).

This certificate may only be reproduced in full The certificate is not transferable and remains the property of the issuing body.

> Mining And Surface Certification (Pty) Ltd Unit 5 Lelyta Park, 45 Jurg Avenue, Hennopspark, Ext 87 Centurion 0157

### IA CERTIFICATE: MASC S/24-8640X Equipment: Tablet computer Tab-Ex 04 Pro DZ2 (WiFi/WWAN)

### ANNEX A

This	s document is based on and must be read in conjunction with certificate IECEx EPS 23.0079X			
Description (According to Base Certificate) **				
"Refer to description in Base Certificate ** (and any applicable schedules/issues/variations)."				
Standard compliance	See Base Certificate **			
Safety Parameters	See Base Certificate **			
Certified	See Base Certificate **			
Accessories				
Special conditions of safe use ("X")	<ul> <li>The device shall be protected against high energy impacts.</li> <li>The device shall not be used in close proximity to processes producing high electrostatic charges.</li> <li>The Ex-protective case must be correctly fitted before entering the hazardous location.</li> <li>Battery pack and SIM/SD-Card replacement are only allowed in ordinary (non-hazardous) locations.</li> <li>Wired USB connections via the USB-C port or the Keyboard-Dock-Port (POGO pins) are only allowed in ordinary (non-hazardous) locations.</li> <li>The device may only be charged in a temperature range of -5 °C to +45 °C.</li> <li>It must be ensured that the power plug or supply used for charging and wired data connections is a non-shock hazard extra low voltage equipment such as SELV, PELV or ES1 as per IEC 62368-1 (former IEC 60950-1) or equivalent.</li> <li>Charging and wired data-transfer via the USB-C interface is limited to a maximum Um of 13.4 V (nominal) and a current of 3.2 A (nominal).</li> <li>Intrinsically safe equipment for use in the hazardous location connected to the audio jack must fulfill one of the following: <ul> <li>The combination of the intrinsically safe equipment and the Tab-Ex 04 Pro DZ2 must be assessed, and the certificate of the equipment must allow the connection to the Tab-Ex 04 Pro DZ2.</li> <li>It is allowed to use the Samsung headset type EHS64AVFWE with the Tab-Ex 04 Pro DZ2 in hazardous locations.</li> </ul> </li> </ul>			
Conditions of	Repairs are to be conducted by the manufacturer or an authorized service center.      None.			
manufacture				
Conditions of Certification	<ul> <li>This IA Certificate covers all units sold from the date of this document to the expiry date of this certificate.</li> <li>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).</li> <li>The apparatus must be additionally marked with the MASC marking details above.</li> <li>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.</li> <li>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.</li> <li>The certification on which this IA Certificate is based must remain valid.</li> <li>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.</li> <li>The Ex-quality assurance notification/report for the equipment must remain valid.</li> </ul>			
Conclusion:	<ul> <li>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 **.</li> <li>The routine tests for production units according to the Base Certificate ** must be complied with (if applicable).</li> </ul>			

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 error neous 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 and standard(s).

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

This document may only be reproduced in full. This certificate is not transferable and remains the property of the issuing body. This document will not be supported by MASC for certification purposes outside the borders of South Africa.

> Mining And Surface Certification (Pty) Ltd Reg No: 2015/021934/07 Directors: Roelof Viljoen & Francoius du Toit Unit #5, Lelyta Park, 45 Jurg Avenue, Hennopspark Ext 87, Centurion, 0157 P.O. Box 14344, Clubview, 0014 Tel: 012 653 2959 ◊ Fax: 086 605 8568 e-mail: info@masc-ex.co.za



Germany

## **IECEx Certificate** of Conformity

### INTERNATIONAL ELECTROTECHNICAL COMMISSION

IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.jecex.com

Certificate No .:	IECEx EPS 23.0079X	Page 1 of 3	Certificate history:
Status:	Current	Issue No: 0	
Date of Issue:	2024-02-26		
Applicant:	Pepperl+Fuchs SE Lilienthalstrasse 200 68307 Mannheim Germany		
Equipment:	Tablet computer, type Tab-Ex (	04 Pro DZ2 (WiFi/WWAN)	
Optional accessory	<i>r</i> :		
Type of Protection:	intrinsic safety "ic"		
Marking:	Ex ic IIC T5 Gc		
	Ex ic IIIC T135°C Dc		
Approved for issue Certification Body:	on behalf of the IECEx	Ulrich Feike	
Position:		Head of Certification	
Signature: (for printed version	)		
Date: (for printed version)	)		
<ol><li>This certificate is r</li></ol>	d schedule may only be reproduced in full. to transferable and remains the property of thenticity of this certificate may be verified b	the issuing body. y visiting www.iecex.com or use of this QR Code.	
Certificate issue	ed by:		A BARA
Businesspark	as Consumer Products Servic A96	ces Germany GmbH	
86842 Türkhei Germany	III		BUREAU

THECEX		IECEx Certificate of Conformity	
Certificate No.:	IECEx EPS 23.0079X	Page 2 of 3	
Date of issue:	2024-02-26	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 Edition:7.0	Explosive atmospheres - Part 0: Equipment - General requirements
IEC 60079-11:2023 Edition:7.0	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
IEC 60079-11:2011 Edition:6.0	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"

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/ExTR23.0082/00

Quality Assessment Report:

DE/PTB/QAR06.0008/19



# IECEx Certificate of Conformity

Certificate No.:

IECEx EPS 23.0079X

Date of issue:

Page 3 of 3 Issue No: 0

### EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The Tab-Ex 04 Pro DZ2 is an intrinsically safe tablet computer.

2024-02-26

#### Intrinsically safe parameters earphone jack:

 $U_o = 1.8 \text{ V} / I_o = 210 \text{ mA} / P_o = 70 \text{ mW} / C_o = 18 \mu\text{F} / L_o = 2500 \mu\text{H}$  $U_i = 0 \text{ V} / I_i = 0 \text{ mA} / P_i = 0 \text{ mW} / C_i = 0.6 \text{ nF} / L_i = 0.65 \mu\text{H}$ 

#### Ambient temperature range: -20 °C $\leq$ T<sub>a</sub> $\leq$ +55 °C

Electrical supply:

Powered by battery pack type EB-BT545ABY. (refer to instruction manual)

### Certified accessories:

- 1. S Pen
- 2. Ex-protective case
- 3. Belt Clip BC T01
- 4. Chest Harness CH TPRO X2
- 5. Leather Case LC TPRO X2
- 6. Stylus Tether (for S Pen)
- 7. Carrying strap
- 8. Headset type EHS64AVFWE

### SPECIFIC CONDITIONS OF USE: YES as shown below:

The device shall be protected against high energy impacts.

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

The Ex-protective case must be correctly fitted before entering the hazardous location.

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

Wired USB connections via the USB-C port or the Keyboard-Dock-Port (POGO pins) are only allowed in ordinary (non-hazardous) locations.

The device may only be charged in a temperature range of -5 °C to +45 °C.

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

Charging and wired data-transfer via the USB-C interface is limited to a maximum U<sub>m</sub> of 13.4 V (nominal) and a current of 3.2 A (nominal).

Intrinsically safe equipment for use in the hazardous location connected to the audio jack must fulfill one of the following:

- The combination of the intrinsically safe equipment and the Tab-Ex 04 Pro DZ2 must be assessed and the certificate of the equipment must allow the connection to the Tab-Ex 04 Pro DZ2.
- It is allowed to use the Samsung headset type EHS64AVFWE with the Tab-Ex 04 Pro DZ2 in hazardous locations.
- The equipment entity parameters must match with the Tab-Ex 04 Pro DZ2 entity parameters as indicated above.

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