



Mining And Surface Certification (Pty) Ltd

2015/021934/07

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/19-6224X	Issue	2			
Issue Date	30 April 2024	Expiry Date	30 April 2027			
** Based on Certificate No	IECEx EPS 16.0072X	Issue / Variation	ons / Amendment	5		
Requested by	Pepperl+Fuchs (Pty) Ltd					
	Zerwick Forum, 8 Glen Eagle	n Eagle Office Park Cnr Monument Rd and Braambos St,				
	Glen Erasmia, Kempton Park	ark 1619, South Africa				
Manufacturer	Pepperl+Fuchs SE	ns SE				
	Lilienthalstrasse 200, 68307 Mannheim, Germany					
Description	The Pad-Ex 01 * is an intrinsically safe rugged tablet PC for use in explosive hazardous areas of					
	zone 2 and zone 22.					
	The device can be equipped with different modules (4G LTE/WWAN, M.2 SSD, RAM, Scanner).					
	The device may only be used with accessories X-Strap, Shoulder-Strap, Hand-Strap or Leather					
	case, approved by the manufacturer. Further accessory: ST P01 P12. A Stylus pen with tether.					
	See **Base certificate for full	te for full description, electrical data, and ambient temperature.				
Equipment	Intrinsically Safe Tablet PC	Type Pad-	Ex 01 *			
MARKING:	Type:	Intrinsically Safe Tablet PC type Pad-Ex 01 *				
Original marking as per	Ex Marking:	Ex ic IIC T4 Gc IP64				
certificate ** remains	///	Ex ic IIIB T135°C Dc IP64				
applicable.		Ex ic op is IIC T4 Gc IP64 (P12 series)				
IA number must be added.		Ex ic op is IIIB T135°C Dc ÌP64 (P12 series)				
	IA Number:	MASC S/19-6224X (To be additionally marked on equipment)				
	Warnings:	See Base Certificate ** (original marking must be applied)				
Quality Assurance report (C	DE/PTB/QAR0	6.0008/20				
O						

Compliance:

The equipment as described above has been allocated the rating <u>Explosion Protected 'as above'</u> utilizing the SANS/IEC Standards:

SANS (IEC) 60079-0: 2019 Equipment - General requirements
 SANS (IEC) 60079-11: 2012 Equipment protection by intrinsic safety "i"

• SANS (IEC) 60079-28: 2015 Protection of equipment and transmission systems using optical radiation

Note: This certificate covers only the listed standards and does not imply compliance to any other standard, related or inferred. It is up to the manufacturer to ensure that the product complies to all relevant standards for the application.

Special conditions of safe use "X":

Refer to Annex A below for more details.

Conditions of manufacture:

Refer to Annex A below for more details.

C. WELTHAGEN
TECHNICAL SPECIALIST

N. VILOJEN TECHNICAL OFFICER

This certificate covers all units sold as long as the QAR/QAN remains valid.

According to the relevant requirements of the MHS Act and the OHS Act, production units of explosion protected equipment are required to comply with third party quality assurance (an approved mark scheme or batch testing by an accredited test laboratory).

Apparatus in hazardous locations is subject to the following provisions as applicable, which shall be adhered to:

SANS 10086 requirements;

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.

IA CERTIFICATE: MASC S/19-6224X

Equipment: Intrinsically Safe Tablet PC type Pad-Ex 01 *

(Expiry date: 30 April 2027)

Page 2 of 2

ANNEX A

This	This document is based on and must be read in conjunction with certificate IECEx EPS 16.0072X				
Description (According to Base Certificate) **					
"Refer to description in Base Certificate ** (and any applicable schedules/issues/variations)."					
Issue	Issue 1: Supplemented for review as per ARP 0108. Issue 2: Supplemented for review as per ARP 0108.				
Standard compliance	See Base Certificate **				
Special conditions of safe use ("X")	 The battery pack shall be removed, changed, or charged only outside hazardous areas. The impact test according to IEC 60079-0 was performed with reduced height. The equipment shall be protected from impacts with high impact energy, against excessive UV light emission and high electrostatic charge generating processes. External connections shall never be used in hazardous areas. The interface cover shall be closed in hazardous areas. Only use a damp cloth to clean the device. 				
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 certification on which this IA Certificate is based must remain valid. 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 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.



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 16.0072X** Page 1 of 4

Issue No: 5 Status: Current

Date of Issue: 2023-12-18

Applicant: PepperI+Fuchs SE

Lilienthalstrasse 200 68307 Mannheim Germany

Equipment: Intrinsically Safe Tablet PC type Pad-Ex 01 *

Optional accessory:

Type of Protection: Intrinsic safety "i"

Marking: Ex ic IIC T4 Gc IP64

Ex ic IIIB T135°C Dc IP64

Ex ic op is IIC T4 Gc IP64 (P12 series) Ex ic op is IIIB T135°C Dc IP64 (P12 series)

Approved for issue on behalf of the IECEx **Ulrich Feike**

Certification Body:

Position: **Head of Certification**

Signature:

(for printed version)

(for printed version)

- This certificate and schedule may only be reproduced in full.
 This certificate is not transferable and remains the property of the issuing body.
 The Status and authenticity of this certificate may be verified by visiting www.iecex.com or use of this QR Code.



Certificate history: Issue 4 (2021-07-22)

Issue 3 (2019-09-09) Issue 2 (2018-10-15)

Issue 1 (2017-06-22) Issue 0 (2017-01-13)

Certificate issued by:

Bureau Veritas Consumer Products Services Germany GmbH Businesspark A96 86842 Türkheim Germany





IECEx Certificate of Conformity

Certificate No.: IECEx EPS 16.0072X Page 2 of 4

Date of issue: 2023-12-18 Issue No: 5

Manufacturer: Pepperl+Fuchs SE

Lilienthalstrasse 200 68307 Mannheim

Germany

Manufacturing ECOM Instruments GmbH

locations: 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 Explosive atmospheres - Part 0: Equipment - General requirements

Edition:7.0

Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"

IEC 60079-11:2011 Edition:6.0

IEC 60079-28:2015

Explosive atmospheres - Part 28: Protection of equipment and transmission systems using optical radiation

Edition:2

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/ExTR16.0071/05

Quality Assessment Report:

DE/PTB/QAR06.0008/19



IECEx Certificate of Conformity

Certificate No.: IECEx EPS 16.0072X Page 3 of 4

Date of issue: 2023-12-18 Issue No: 5

EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The Pad-Ex 01 * is an intrinsically safe rugged tablet PC for use in explosive hazardous areas of zone 2 and zone 22.

Description *:

Z2 The device carries ATEX/IECEx marking

HR Z2 The device carries ATEX/IECEx marking and is equipped with Full HD display

DZ2 The device carries ATEX/IECEx and NEC/CEC marking

HR DZ2 The device carries ATEX/IECEx and NEC/CEC marking and is equipped with Full HD display

P8 Z2 The device carries ATEX/IECEx marking and is equipped with Full HD display and 8th CPU

generation

P8 DZ2 The device carries ATEX/IECEx and NEC/CEC marking and is equipped with Full HD display

and 8th CPU generation

P12 Z2 The device carries ATEX/IECEx marking and is equipped with Full HD display and 12th CPU

generation

P12 DZ2 The device carries ATEX/IECEx and NEC/CEC marking and is equipped with Full HD display

and 12th CPU generation

The device can be equipped with different modules (4G LTE/WWAN, M.2 SSD, RAM, Scanner).

The device may only be used with accessories X-Strap, Shoulder-Strap, Hand-Strap or Leathercase, approved by the manufacturer.

Further accessory: ST P01 P12. A Stylus pen with tether.

Electrical data:

Battery powered, lithium ion battery pack with following nominal ratings:

Type 1:	R11AH	4100 mAh	11.1 V
Type 2:	R11AH2	7800 mAh	11.1 V
Type 3:	R11AH	3950 mAh	11.1 V
Type 4:	R11AH7-M	3900 mAh	11.1 V
Type 5:	R11AH7-H	6900 mAh	10.8 V

Ambient temperature range:

-10 °C ≤ Ta ≤ +55 °C

SPECIFIC CONDITIONS OF USE: YES as shown below:

The battery pack shall be removed, changed or charged only outside hazardous areas.

The impact test according to IEC 60079-0 was performed with reduced height. The equipment shall be protected from impacts with high impact energy, against exessive UV light emission and high electrostatic charge generating processes. External connections shall never be used in hazardous areas. The interface cover shall be closed in hazardous areas. Only use a damp cloth to clean the device.



IECEx Certificate of Conformity

Certificate No.: IECEx EPS 16.0072X	Page 4 of 4
-------------------------------------	-------------

Date of issue: 2023-12-18 Issue No: 5

DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Hardware Update