

Certificate of Conformity

Ex EQUIPMENT

Certificate No.:	ANZEx 19.4169X	Current Issue:	0	Date of Issue:	25 March 2020
------------------	-----------------------	----------------	---	----------------	---------------

Applicant: **Pepperl+Fuchs AG**
Lilienthalstraße 200,
Mannheim 68307,
Germany

Equipment: Tab-Ex 02 DZ1**** Flameproof Tablet Enclosure

Type of Explosion Protection: Flameproof "db", Intrinsic Safety "ia", Inherently safe optical radiation "op is"

Explosion Protection Marking: Ex db ia op is I Mb
Ta = -20°C to +50°C

*This certificate is granted subject to the conditions as set out in
Standards Australia/Standards New Zealand Miscellaneous Publication **MP87.1***

Signed for and on behalf of issuing body



Name & Position

Ajay Maira - Certification Authority

This certificate is not transferable and remains the property of the issuing body.

The status of this certificate can be confirmed through the database located at www.anzex.com.au

Certificate issued by:

Ex Testing & Certification Pty Ltd
1/30 Kennington Drive, Tomago NSW 2322, Australia

Certificate of Conformity

Ex EQUIPMENT

Certificate No.:	ANZEx 19.4169X	Current Issue:	0	Date of Issue:	25 March 2020
------------------	-----------------------	----------------	---	----------------	---------------

Manufacturer : **Ecom Instruments GmbH (a part of Pepperl+Fuchs AG)**
Industriestraße 2,
97959 Assamstadt,
Germany

Additional Manufacturing Location(s): **Any other manufacturing location of: Pepperl+Fuchs AG**
Lilienthalstraße 200,
Mannheim 68307,
Germany
that is covered in the QAR (and its supplements) listed in this certificate and has Flameproof “db”, Intrinsic Safety “ia”, Inherently safe optical radiation “op is” in its scope

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 Ed 7	Explosive atmospheres Part 0: Equipment—General requirements
IEC 60079-1:2014-06 Ed 7	Explosive atmospheres Part 1: Equipment protection by flameproof enclosures “d”
IEC 60079-11:2011 Ed 6	Explosive atmospheres Part 11: Equipment protection by intrinsic safety “I”
IEC 60079-28:2015 Ed 2	Explosive atmospheres Part 28: Protection of equipment and transmission systems using optical radiation

This Certificate does not indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:

The equipment listed has successfully met the examination and test requirements as recorded in:

Test Report Nos. & Issuing Bodies associated with all issues of the certificate:	GB/SIR/ExTR19.0139/00 GB/SIR/ExTR19.0140/00 REP19106-01	SIRA SIRA ExTC
--	---	----------------------

Quality Assessment Report No. & Issuing Body:	DE/PTB/QAR06.0008/11	PTB
---	----------------------	-----

File Reference:	Job 19106
-----------------	-----------

(Certificate format based on template QMA-HAE-08-720 dated 2020-02-10)

Certificate of Conformity

Ex EQUIPMENT

Certificate No.: **ANZEx 19.4169X**

Current Issue: 0

Date of Issue: 25 March 2020

Schedule

Equipment Description:

The Tab-Ex 02 DZ1**** Flameproof Tablet Enclosure which may be used in an underground coal mine comprises a Samsung Galaxy Tab Active tablet, which is contained within a hardened plastic flameproof enclosure with front and rear toughened glass windows. The front window is provided for the main LCD display and front camera, the rear window is provided for the rear camera and integral LED.

The flameproof enclosure incorporates three push rods in cylindrical flamepaths to actuate the tablet side function keys and a M24 threaded plug which allows access to the tablet SIM card in the non-hazardous area.

This flameproof enclosure is contained within an additional anti-static plastic enclosure, which houses function keys (Menu, Home and Back) identical to the ones on the Samsung tablet. These keys are connected to the tablet via intrinsically safe circuitry and perform the same function as the originals. The equipment incorporates the S-Pen stylus which, can be used to operate the tablet touch screen via an electromagnetic induction system.

The equipment comprises a battery charging and data connection facility which is designed to be used in the non-hazardous area only, with a dedicated charger/docking station. When not connected to the dedicated charger/docking station facility any voltage or withdrawal of current from the connection pins is not possible. Electrical connections to the equipment are not permitted in the hazardous area.

Electrical Ratings/Parameters

N/A

Specific Conditions of Use:

1. The equipment shall only be brought into the hazardous area when fitted in the LCT01 X1 leather case provided by the manufacturer.
2. The leather case screen cover shall be fitted over the LCD screen when the equipment is not in use or is being transported.
3. The equipment shall be removed from the hazardous area on loss of ventilation.
4. The equipment shall only be used in areas with a low risk of mechanical impact.
5. Electrical connections to the equipment are not permitted in the hazardous area.

Certificate of Conformity

Ex EQUIPMENT

Certificate No.: ANZEx 19.4169X	Current Issue: 0	Date of Issue: 25 March 2020
--	------------------	------------------------------

6. The product shall not be used where chemical agents such as oil or grease are likely to come into contact with the equipment.
7. The model 'Tab-Ex 02 DZ1 WWAN' shall only be opened for SIM Card access in the non-hazardous area as per Pepperl and Fuchs guidance document DOCT - 6352. All other equipment models 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 shall apply:
 - The equipment must 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 the internal flameproof enclosure is not subject to static charging.
 - If the inner flameproof enclosure is opened, the equipment must never be used in an explosive atmosphere unless it has been repaired and re-sealed by the OEM.

Conditions of Certification:

1. The equipment shall only be fitted with Type 1 Glass.

Certificate of Conformity

Ex EQUIPMENT

Certificate No.: **ANZEx 19.4169X**

Current Issue: 0

Date of Issue: 25 March 2020

History of Issues and Variations

includes the current issue

Issue 0 dated 2020-03-25

Manufacturer's Documents associated with Issue 0:

Document Title	Document Number	Pages / Sheets	Revision	Date
Electrical drawing package (Various Titles)	16-1447CS-01	1 to 42	00	2019-05-02
Mechanical drawing package (Various Titles)	16-1447CS-04	1 to 30	00	2019-04-29
Sim Card Installation	16-1447CS-09	48 to 56 of 99	00	2019-04-17
Instruction drawing package (Various Titles)	16-1447SA-09	1 to 13	00	2020-03-18