




Type Examination Certificate

for Electrical Equipment used in Potentially Explosive Atmosphere

Issued by Eurofins E&E CML Limited, Newport Business Park, New Port Road, Ellesmere Port CH65 4LZ, UK	
Applicant	Pepperl + Fuchs SE Lilienthalstrasse 200, 68307 Mannheim, Germany
Manufacturer name	Pepperl + Fuchs SE Lilienthalstrasse 200, 68307 Mannheim, Germany
Product name	Tablet computer
Type/model code	Tab-Ex 04 Pro DZ2 WiFi, Tab-Ex 04 Pro DZ2 WWAN
Type of protection	Intrinsic Safety
Group, Temperature Class and EPL	IIC T5 Gc IIIC T135°C Dc
The equipment shall be marked with the following	Ex ic IIC T5 Gc Ex ic IIIC T135°C Dc
Ratings	See attachment 1
Special condition for safe use	See attachment 2
Certificate number	CML 24JPN2087X
Term of validity	From 01-05-2024 to 30-04-2027 

This is to certify that the equipment specified above complies with the requirements stipulated in Ordinance on Examination of Machines and Other Equipment of the Ministry of Health, Labour and Welfare, Japan.

Issue date: 01-05-2024

Signature of chief examiner:

Attachment 1: Ratings

Intrinsically safe parameters earphone jack:

$U_o = 1.8 \text{ V} / I_o = 210 \text{ mA} / P_o = 70 \text{ mW} / C_o = 18 \text{ }\mu\text{F} / L_o = 2500 \text{ }\mu\text{H}$

$U_i = 0 \text{ V} / I_i = 0 \text{ mA} / P_i = 0 \text{ mW} / C_i = 0.6 \text{ nF} / L_i = 0.65 \text{ }\mu\text{H}$

Ambient temperature range :

$-20 \text{ }^\circ\text{C} \leq T_a \leq +55 \text{ }^\circ\text{C}$

Electrical supply:

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

Accessories:

- S Pen
- Ex-protective case
- Belt Clip BC T01
- Chest Harness CH TPRO X2
- Leather Case LC TPRO X2
- Stylus Tether (for S Pen)
- Carrying strap
- Headset type EHS64AVFWE

Attachment 2: Special conditions

The following are special conditions for safe use:

- i. The device shall be protected against high energy impacts.
- ii. The device shall not be used in close proximity to processes producing high electrostatic charges.
- iii. The Ex-protective case must be correctly fitted before entering the hazardous location.
- iv. Battery pack and SIM/SD-Card replacement is only allowed in ordinary (non-hazardous) locations.
- v. Wired USB connections via the USB-C port or the Keyboard-Dock-Port (POGO pins) are only allowed in ordinary (non-hazardous) locations.
- vi. The device may only be charged in a temperature range of $-5 \text{ }^\circ\text{C}$ to $+45 \text{ }^\circ\text{C}$.
- vii. 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.
- viii. Charging and wired data-transfer via the USB-C interface is limited to a maximum U_m of 13.4 V (nominal) and a current of 3.2 A (nominal).
- ix. Intrinsically safe equipment for use in the hazardous location connected to the audio jack must fulfil 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.
- x. Repairs are to be conducted by the manufacturer or an authorized service centre.