



## EU - Type Examination Certificate

(1)

(2) Equipment and protective systems intended for use in potentially explosive atmospheres – **Directive 2014/34/EU**

(3) EU - Type Examination Certificate Number

**EPS 24 ATEX 1 228 X**

**Revision 0**

(4) Equipment: Flameproof Tablet Computer Enclosure  
Types: Tab-Ex 05 DZ1 WiFi, Tab-Ex 05 DZ1 WWAN

(5) Manufacturer: Pepperl+Fuchs SE

(6) Address: Lilienthalstrasse 200  
68307 Mannheim  
Germany

(7) This equipment and any acceptable variation thereto are specified in the annex to this certificate and the documentation therein referred to.

(8) Bureau Veritas Consumer Products Services Germany GmbH, notified body No. 2004 in accordance with Article 21 given in the Directive 2014/34/EU of the European Parliament and of the Council of 26 February 2014, certifies that this equipment has been found to comply with the essential health and safety requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres, given in Annex II of the Directive. The examination and test results are recorded in the confidential documentation under the reference number 21TH0571.

(9) Compliance with the essential health and safety requirements has been assured by compliance with:

**EN IEC 60079-0:2018**

**EN 60079-1:2014**

**EN 60079-11:2012**

**IEC 60079-11:2023**

**IEC 60079-31:2022**

(10) If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the annex to this certificate.

(11) This EU - Type Examination Certificate relates only to the design and construction of the specified equipment in accordance with Directive 2014/34/EU. Further requirements of this Directive apply to the manufacture of this equipment and its placing on the market. Those requirements are not covered by this certificate.

(12) The marking of the equipment shall include the following:

II 2G Ex db ia IIC T6 Gb

II 2D Ex tb ia IIIC T80°C Db



Certification department of explosion protection

Ulrich Feike

Tuerkheim, 2024-12-17

Certificates without signature and seal are void. This certificate is allowed to be distributed only if not modified. Extracts or modifications must be authorized by Bureau Veritas Consumer Products Services Germany GmbH.

(13)

## Annex

(14) **EU - Type Examination Certificate EPS 24 ATEX 1 228 X**

**Revision 0**

(15) Description of equipment:

The Tab-Ex 05 DZ1 WiFi and Tab-Ex 05 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 5 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.

Ambient temperature range:  $-20\text{ °C} \leq T_a \leq +55\text{ °C}$

Powered by a secondary battery: 3.85 V DC, 4900 mAh, 18.87 Wh

Entity parameter for USB-C interface for use in hazardous locations:

$U_o = 5.6\text{ V}$	$I_o = 500\text{ mA}$	$P_o = 600\text{ mW}$	$C_o = 1\text{ }\mu\text{F}$	$L_o = 1\text{ }\mu\text{H}$
$U_i = 5.6\text{ V}$	$I_i = 100\text{ mA}$	$P_i = 100\text{ mW}$	$C_i = 53\text{ }\mu\text{F}$	$L_i = 0\text{ }\mu\text{H}$

Optional Accessories:

S Pen type ST T05 X2  
Leather case type LC T05 X1  
Chest Harness type CH T05 X1  
Belt clip type BC T01  
Carrying strap CS T05  
Tether for stylus pen type ST 01

(16) Reference number: 21TH0571

(17) Special conditions for safe use:

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.

Charging and SIM/SD-Card replacement are only allowed in ordinary (non-hazardous) locations.

The device may only be charged in a temperature range of  $-5\text{ °C}$  to  $+55\text{ °C}$ .

Charging and wired data-transfer via the USB-C interface is limited to a maximum  $U_m$  of 30 V and a maximum current of 50 A.

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

(continuation see following page)



**EU - Type Examination Certificate EPS 24 ATEX 1 228 X**

**Revision 0**

(17) Special conditions for safe use: (continuation)

The following spare part is allowed to be replaced by the end user:

USB-C Cover Tab-Ex 03 DZ1 (compatible with Tab-Ex 05 DZ1)

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

(18) Essential health and safety requirements:

Met by compliance with standards.



Certification department of explosion protection

Ulrich Feike

Tuerkheim, 2024-12-17