



# UK - Type Examination Certificate

(2) Equipment and protective systems intended for use in potentially explosive atmospheres – **UKSI 2016:1107 (as amended)**

(3) UK - Type Examination Certificate Number

**EPS 22 UKEX 1 055 X**

**Revision 0**

(4) Equipment: Tab-Ex 03 DZ1 WiFi and Tab-Ex 03 DZ1 WWAN Flameproof Tablet Computer Enclosure

(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 United Kingdom Limited, approved body No. 8507 in accordance with UKSI 2016:1107 (as amended) Part 4, 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 Schedule 1 of UKSI 2016:1107 (as amended). 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**

**EN 60079-31:2014**

(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.

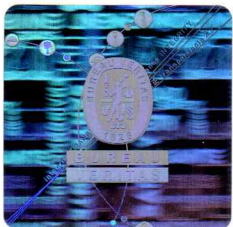
(11) This UK - Type Examination Certificate relates only to the design and construction of the specified equipment in accordance with UKSI 2016:1107 (as amended). Further requirements apply to the manufacture of this equipment and its placing on the market. Those requirements are not covered by this certificate.

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



II 2G Ex db ia IIC T6 Gb IP64

II 2D Ex tb ia IIIC T80°C Db



Certification department of explosion protection

Warrington, 15-09-2022

*N. Wilkinson*  
Natalie Wilkinson



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(13)

## Annex

(14) **UK - Type Examination Certificate EPS 22 UKEX 1 055 X**

Revision 0

(15) Description of equipment:

The Tab-Ex 03 DZ1 WiFi and Tab-Ex 03 DZ1 VWWAN 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 3 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.

Electrical data:

Battery powered

Nominal/rated battery data: 3.85 VDC, 4900 mAh, 18.87 Wh

Accessory:

Samsung S Pen – ECOM Type ST T03 X2

(16) Reference number: 21TH0571

(17) Special conditions for safe use:

- Ambient temperature range:  $-20\text{ °C} \leq T_a \leq +55\text{ °C}$
- 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.
- Entity parameter for USB-C interface for use in hazardous locations:

|                      |                       |                       |                              |                              |
|----------------------|-----------------------|-----------------------|------------------------------|------------------------------|
| $U_o = 5.6\text{ V}$ | $I_o = 500\text{ mA}$ | $P_o = 600\text{ mW}$ | $C_o = 1\text{ }\mu\text{F}$ | $L_o = 1\text{ }\mu\text{H}$ |
|----------------------|-----------------------|-----------------------|------------------------------|------------------------------|

|                      |                       |                       |                               |                              |
|----------------------|-----------------------|-----------------------|-------------------------------|------------------------------|
| $U_i = 5.6\text{ V}$ | $I_i = 100\text{ mA}$ | $P_i = 100\text{ mW}$ | $C_i = 53\text{ }\mu\text{F}$ | $L_i = 0\text{ }\mu\text{H}$ |
|----------------------|-----------------------|-----------------------|-------------------------------|------------------------------|

(18) Essential health and safety requirements:

Met by compliance with standards.

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Warrington, 15-09-2022



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