



# Certificate of Compliance

**Certificate:** 80012318

**Master Contract:** 169790

**Project:** 80032446

**Date Issued:** March 06, 2020

**Issued to:** Pepperl + Fuchs AG  
Lilienthalstrasse 200  
Mannheim  
68307  
GERMANY

**Attention:** Guenter Gabriel

*The products listed below are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US' for Canada and US or with adjacent indicator 'US' for US only or without either indicator for Canada only*



**Issued by:**

*Carlos Garcia*  
C Garcia

## PRODUCTS

**CLASS 9098 01- MISCELLANEOUS – For Hazardous Locations**

**Ex db ia op is IIC T5 Gb**

**Ex tb ia op is IIIC T100°C Db**

**Ambient Temperature Range -20°C to +50°C**

Model Tab-Ex 02 DZ1WiFi (Equipped with Type 1 LCD Glass & Type 2 LCD Glass); Model Tab-Ex 02 DZ1WWAN (Equipped with Type 1 LCD Glass & Type 2 LCD Glass); industrial portable 8 inch tablet computer, powered by a single internal 3.8Vdc, 4450mAh, 16.91Wh, secondary Li-Ion battery, maximum charge voltage 4.35V. For use in an ambient temperature range of -20°C to +50°C.

## Conditions of Acceptability:

1. The model 'Tab-Ex 02 DZ1WWAN' shall only be opened for SIM Card access in the non-hazardous area as per Pepperl + 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:
  - a. 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.



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- b. If the outer enclosure is damaged precautions shall be taken to ensure the internal flameproof enclosure is not subject to static charging.
- c. 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.
2. Electrical connections to the equipment are not permitted in the hazardous area.
3. The equipment shall be subjected to routine overpressure testing by the manufacturer at a pressure of 0.6 bar in accordance with CAN/CSA C22.2 No 60079-1:16. The SIM card plug does not require overpressure testing.
4. The equipment shall only be used in areas with low risk of mechanical impact.
5. Units are intended to be supplied by external approved power supply unit (not part of the investigation), provided with SELV and Limited Power Source output separated from the mains body by double or reinforced insulation or +5Vdc Micro USB.
6. The charging of the tablet shall be in an ambient less than +45°C.
7. This investigation does not include the functionality, performance or mobile communication aspects of Samsung Tablet version, SM-T390, SM-T395 and SM-T397 (with LTE/GSM/WCDMA).

**CLASS 9098 81- MISCELLANEOUS – For Hazardous Locations – Certified to US Standards**

**Class I, Division 1, Groups A, B, C and D; T5**  
**Class II, Division 1, Groups E, F and G; T5**  
**Class I, Zone 1 AEx db ia op is IIC T5 Gb**  
**Zone 21 AEx tb ia op is IIIC T100°C Db**  
**Ambient Temperature Range -20°C to +50°C**

Model Tab-Ex 02 DZ1WiFi (Equipped with Type 1 LCD Glass & Type 2 LCD Glass); Model Tab-Ex 02 DZ1WWAN (Equipped with Type 1 LCD Glass & Type 2 LCD Glass); industrial portable 8 inch tablet computer, powered by a single internal 3.8Vdc, 4450mAh, 16.91Wh, secondary Li-Ion battery, maximum charge voltage 4.35V. For use in an ambient temperature range of -20°C to +50°C.

**Conditions of Acceptability:**

1. The model 'Tab-Ex 02 DZ1WWAN' shall only be opened for SIM Card access in the non-hazardous area as per Pepperl + 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:
  - a. 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.
  - b. If the outer enclosure is damaged precautions shall be taken to ensure the internal flameproof enclosure is not subject to static charging.
  - c. 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.
2. Electrical connections to the equipment are not permitted in the hazardous area.
3. The equipment shall be subjected to routine overpressure testing by the manufacturer at a pressure of 0.6 bar in accordance with ANSI/UL 60079-1:2015. The SIM card plug does not require overpressure testing. (Zones only).



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4. The equipment shall be subjected to routine overpressure testing by the manufacturer at a pressure of 0.78 bar in accordance with FM 3615: 2018. The SIM card plug does not require overpressure testing. (Divisions only).
5. The equipment shall only be used in areas with low risk of mechanical impact.
6. Units are intended to be supplied by external approved power supply unit (not part of the investigation), provided with SELV and Limited Power Source output separated from the mains body by double or reinforced insulation or +5Vdc Micro USB.
7. The charging of the tablet shall be in an ambient less than +45°C.
8. This investigation does not include the functionality, performance or mobile communication aspects of Samsung Tablet version, SM-T390, SM-T395 and SM-T397 (with LTE/GSM/WCDMA).

### **APPLICABLE REQUIREMENTS**

CAN/CSA C22.2 No. 0-10 (R2015)	General requirements – Canadian Electrical Code Part II.
CAN/CSA C22.2 No. 60079-0:15	Explosive atmospheres – Part 0: Equipment – General requirements.
CAN/CSA C22.2 No. 60079-1:16	Explosive atmospheres – Part 1: Equipment protection by flameproof enclosures “d”.
CAN/CSA C22.2 No. 60079-11:14	Explosive atmospheres – Part 11: Equipment protection by intrinsic safety “i”.
CAN/CSA C22.2 No. 60079- 28:16	Explosive atmospheres – Part 28: Protection of equipment and transmission systems using optical radiation.
CAN/CSA C22.2 No. 60079-31:15	Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure “t”.
CAN/CSA C22.2 No. 62368-1:14	Audio/video, Information and Communication Technology Equipment - Part 1: Safety requirements.
FM 3600 (January 2018)	Electrical Equipment for Use in Hazardous (Classified) Locations – General Requirements.
FM 3615 (January 2018)	Explosionproof Electrical Equipment General Requirements.
FM 3616 (December 2011)	Dust-Ignitionproof Electrical Equipment General Requirements.
ANSI/UL 60079-0 2013 6 <sup>th</sup> Edition	Explosive atmospheres – Part 0: Equipment – General requirements.
ANSI/UL 60079-1 2015 7 <sup>th</sup> Edition	Explosive atmospheres – Part 1: Equipment protection by flameproof enclosures “d”.
ANSI/UL 60079-11 2013 6 <sup>th</sup> Edition	Explosive atmospheres – Part 11: Equipment protection by intrinsic safety “i”.
ANSI/UL 60079-28 2017 2 <sup>nd</sup> Edition	Explosive atmospheres – Part 28: Protection of equipment and transmission systems using optical radiation.
ANSI/UL 60079-31 2015 2 <sup>nd</sup> Edition	Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure “t”.
ANSI/UL 62368-1:14 2 <sup>nd</sup> Edition	Audio/video, Information and Communication Technology Equipment –Part 1: Safety requirements.



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## **MARKINGS**

The manufacturer is required to apply the following markings:

- Products shall be marked with the markings specified by the particular product standard.
- Products certified for Canada shall have all Caution and Warning markings in both English and French.

Additional bilingual markings not covered by the product standard(s) may be required by the Authorities Having Jurisdiction. It is the responsibility of the manufacturer to provide and apply these additional markings, where applicable, in accordance with the requirements of those authorities.

The products listed are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US' for Canada and US (indicating that products have been manufactured to the requirements of both Canadian and U.S. Standards) or with adjacent indicator 'US' for US only or without either indicator for Canada only.

The following markings are provided on one of three optional adhesive name plates, which are affixed to the rear of the outer enclosure.

1. CILS 8100S, thermal transfer.
2. Flexcon THERMLfilm Advantage, thermal transfer (UL listing MH 16635)
3. Schreiner Folienschild 1010-2, laser film (UL Listing MH 25118)
  - Manufacturer's name: Pepperl + Fuchs AG.
  - Model designation: As specified in the PRODUCTS section, above.
  - Electrical ratings: As specified in the PRODUCTS section, above.
  - Ambient temperature rating: As specified in the PRODUCTS section, above.
  - Manufacturing date in a year and week of production format.
  - The CSA Mark, with or without the "C" and "US" indicators, as shown on the Certificate of Conformity.
  - The designation "CSA 19.80012318X" indicating the year of issue and CSA Certificate number.
  - Hazardous Location designation: As specified in the PRODUCTS section, above.
  - Temperature code: As specified in the PRODUCTS section, above.
  - The warning "WARNING – No electrical connections to the equipment is permitted in hazardous locations SIM Card access only per ecom guidance document DOCT-6352!
  - AVERTISSEMENT – Aucune connexion électrique à cet équipement n'est autorisée dans les emplacements dangereux. Accès à la carte SIM uniquement par le document d'orientation ecom DOCT-6352!
  - The warning "Device is safe when used per control drawing 45-5486.
  - Sécurité conforme au schéma de contrôle 45-5486.