



1 **EU-TYPE EXAMINATION CERTIFICATE**

2 Equipment intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU

3 Certificate Number: **CSANe 20ATEX4223X** Issue: **2**

4 Equipment: **Pixavi Thermal, Pixavi Phone and Pixavi Cam (17-S13*-1***/******)**

5 Applicant: **BARTEC GmbH**

6 Address: **Max-Eyth-Straße 16
97980 Bad Mergentheim
Germany**

7 This equipment and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

8 CSA Group Netherlands B.V., notified body number 2813 in accordance with Articles 17 and 21 of Directive 2014/34/EU of the European Parliament and of the Council, dated 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 intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in the confidential reports listed in Section 14.2.

9 Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the schedule to this certificate, has been assured by compliance with the following documents:

EN IEC 60079-0:2018 EN 60079-11:2012

10 If the sign 'X' is placed after the certificate number, it indicates that the equipment is subject to Specific Conditions of Use identified in the schedule to this certificate.

11 This EU-Type Examination Certificate relates only to the design and construction of the specified equipment. If applicable, further requirements of this Directive apply to the manufacture and supply of this equipment.

12 The marking of the equipment shall include the following:



II 2G Ex ib IIC T4 Gb
II 2D Ex ib IIIC T135°C Db
Ta = -20°C to +60°C

Signed: Michelle Halliwell

Title: Director of Operations



Project Number 80135081

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SCHEDULE

EU-TYPE EXAMINATION CERTIFICATE

CSANe 20ATEX4223X
Issue 2

13 DESCRIPTION OF EQUIPMENT

The Pixavi Cam, Phone and Thermal are handheld communication devices featuring a high-resolution touch display, cameras including infrared/thermal option, speakers and microphones, divergent LED flashlight, SIM and SD card connector and communication interfaces for Wi-Fi, Bluetooth, NFC, GNSS and LTE, UMTS, and GSM networks.

The enclosure is constructed from aluminium, with toughened glass windows and a front/back parts made from plastics.

Electrical interfaces are designed to be intrinsically safe.

Models

- Pixavi Thermal
- Pixavi Phone
- Pixavi Cam

Type:

17-S13*-1****/*****

* Different type codes for each product variant

Entity parameters

IEC Parameters	USB	SIM (1&2)	SD	Unit
Uo	5.45	5.45	5.45	V
Io	2.81	1.20	7.04	A
Po	0.84	0.41	2.59	W
Co	N/A	27.40	39.30	µF
Lo	N/A	24.97	0.72	µH

Variation 1 - This variation introduced the following change:

- i. to amend the special conditions with respect to the following:
 - reference to IEC/EN 60079-14 made more generic.
 - separation of the battery pack in a hazardous area.
 - antistatic precautions with respect to the screen protector and battery case.

14 DESCRIPTIVE DOCUMENTS

14.1 Drawings

Refer to Certificate Annexe.

14.2 Associated Reports and Certificate History

Issue	Date	Report number	Comment
0	28 April 2021	R80042091A	The release of the prime certificate.
1	12 September 2022	R80135082A	The introduction of Variation 1.
2	28 April 2023	N/A	The marking Section was amended to correct a typographical error.

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SCHEDULE

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Issue 2

- 15 **SPECIFIC CONDITIONS OF USE** (denoted by X after the certificate number)
- 15.1 The USB port shall only be used for charging the equipment when in the non-hazardous area. The equipment shall only be charged using a charger specifically supplied for use with the unit, part number G7-SOZO-0001 - G7-SOZO-0004 or other approved accessories specified by Bartec GmbH. The maximum input voltage (Um) from the charger between the lines is nominal 12 V. The ambient temperature during charging shall be in the range 0°C to 45°C.
- 15.2 The USB port is also used for data download. The port has been assessed with a Um of 12 V and shall be installed in accordance with IEC 60079-14/EN 60079-14.
- 15.3 Care shall be taken to avoid the risk of drop and impact during storage, transportation and use as aluminium is present in the structure of the enclosure.
- 15.4 The apparatus shall not be subjected to a prolific charge generating mechanism (such as might occur in pneumatic transfer of powders or charge spraying in a powder coating process).
- 15.5 The battery pack surfaces shall at regular intervals be checked for wear and tear by the user. Replace with type: 17-S1ZO-0001/**** if damaged.
- 15.6 Do not remove the battery pack in the hazardous area.
- 16 **ESSENTIAL HEALTH AND SAFETY REQUIREMENTS OF ANNEX II (EHSRs)**
- The relevant EHSRs that are not addressed by the standards listed in this certificate have been identified and individually assessed in the reports listed in Section 14.2.
- 17 **CONDITIONS OF MANUFACTURE**
- 17.1 The use of this certificate is subject to the Regulations Applicable to Holders of CSA Group Netherlands B.V. certificates.
- 17.2 Holders of EU-Type Examination Certificates are required to comply with the conformity to type requirements defined in Article 13 of Directive 2014/34/EU.

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Certificate Annexe



Certificate Number: CSANe 20ATEX4223X

Equipment: Pixavi Thermal, Pixavi Phone and Pixavi Cam (17-S13*-1***/*****)

Applicant: BARTEC GmbH

Issue 0

Drawing	Sheets	Rev.	Date (Stamp)	Title
11-S130-6A0001	1 of 1	-	09 Apr 21	X8K_Documentation_overview
11-S130-650003	1 of 1	00	07 Apr 21	X8K-SD04-ITEX_IECEX_Label
11-S130-650001	1 of 1	00	03 Mar 21	X8K-SD02-Exploded_Assembly
11-S130-650002	1 of 1	00	03 Mar 21	X8K-SD01-General_Assembly
11-S130-650007	1 of 1	00	03 Mar 21	X8K-SD07-Screen_Protector
11-S130-650010-SCH	1 to 9	C	03 Mar 21	X8K_Main_Board
11-S130-650011-SCH	1 of 1	E	09 Apr 21	X8K_Battery_Board
11-S130-650012-SCH	1 of 1	D	03 Mar 21	X8K_Charging_Rigid_Flex_Board
11-S130-650013-SCH	1 of 1	C	03 Mar 21	X8K_Flex_USB_Board
11-S130-650014-SCH	1 of 1	C	03 Mar 21	X8K_Flex_Display_Board
11-S130-650015-SCH	1 of 1	D	03 Mar 21	X8K_Flex_SIM_Board
11-S130-650016-SCH	1 of 1	C	03 Mar 21	X8K_SideKeys_Board
11-S130-650017-SCH	1 of 1	D	03 Mar 21	X8K_Antenna_Board
11-S130-650009-SCH	1 of 1	A	03 Mar 21	X8K_EX_BlockDiagram
11-S130-650009-BOM*	1 to 4	A	09 Apr 21	X8K_EX_Critical_Component_List

* Drawing number not within document.

Issue 1

Drawing	Sheets	Rev.	Date (Stamp)	Title
11-S130-650007	1 of 1	01	27-Jul-22	X8K-SD07-Screen_Protector

Issue 2 – No new drawings were introduced.

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