



Certificate of Compliance

Certificate: 70025466

Master Contract: 261724

Project: 70056527

Date Issued: 2016-03-01

Issued to: Bartec Pixavi AS
Dusavikveien 39
4007 Stavanger
Norway

Attention: Mr. Christian Rokseth

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:

D W Holton
D W Holton

PRODUCTS

CLASS 2228-01: RADIO APPLIANCES - Transmitters and Receivers, Amateur, Commercial and Communication - For Hazardous Locations

Ex ib op is IIC T4 Gb
Class I, Division 2, Groups A, B, C, D

CLASS 2228-81: RADIO APPLIANCES - Transmitters and Receivers, Amateur, Commercial and Communication - For Hazardous Locations - Certified to U.S. Standards

Class I, Zone 1, AEx ib op is IIC T4 Gb
Class I, Division 2, Groups A, B, C, D

OrbitX: portable, battery-powered, hazardous location video collaboration camera, $-20^{\circ}\text{C} \leq T_{\text{amb}} \leq +45^{\circ}\text{C}$; intrinsically safe with entity parameters as follows:

- USB port: $U_o = \pm 8.4\text{V}$, $I_o = 889\text{mA}$, $P_o = 933\text{mW}$, $C_o = 1.35\mu\text{F}$, $L_o = 3.06\mu\text{H}$
- Headset port: $U_o = \pm 5.8\text{V}$, $I_o = 797\text{mA}$, $P_o = 1.156\text{W}$, $C_o = 1.39\mu\text{F}$, $L_o = 20.6\mu\text{H}$

The USB port may also be used in a non-hazardous location for charging and data transfer: $U_m = 5.8\text{V}$

For details related to rating, size, configuration, etc. reference should be made to the CSA Certification Record or the descriptive report.



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Conditions of Acceptability

- i. The ambient temperature range of the equipment is -20°C to +45°C.
- ii. The equipment shall be protected from contamination by liquid and dust; this is normally achieved by the operator carrying the device on their person.
- iii. 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:
 - Deltaco part number USB-AC35M (ambient for charging is 0°C to 45°C)
 - Ansmann part number 1001-0007 (ambient for charging is 0°C to 45°C)
 - GlobTek model number GT-41078-0505-USB (ambient for charging is 0°C to 45°C)
 - GlobTek model number GT-41078-0506-0.4-USB (ambient for charging is 0°C to 45°C)
 - Glob Tek model number GT*-46101-*05*-USB (ambient for charging is 0°C to 40°C)
 - Glob Tek model number GT*-46101-*06*-USB (ambient for charging is 0°C to 35°C)The maximum input voltage (U_m) from the charger between the lines is 5.8 V and the maximum charging current is 340 mA. The charger shall be approved for use in USA/Canada against CSA/UL 60950-1 or equivalent.
- iv. The USB port is also used for data download. The port has been assessed with a U_m of 5.8 V. The equipment connected to the USB port shall be approved for use in USA/Canada against CSA/UL 60950-1 or equivalent.

APPLICABLE REQUIREMENTS

C22.2 No. 0-10	General Requirements – Canadian Electrical Code, Part II
CAN/CSA-C22.2 No. 60079-0:2011	Explosive Atmospheres - Part 0: Equipment - General requirements
CAN/CSA-C22.2 No. 60079-11:2014	Explosive Atmospheres – Part 11: Equipment protection by intrinsic safety "i"
C22.2 No. 213-M1987 (reaffirmed 2013)	Non-incendive electrical equipment for use in class I, division 2 hazardous locations
CAN/CSA C22.2 No. 61010-1-12	Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use - Part 1: General Requirements - Third Edition
ANSI/UL 60079-0:2013	Electrical Apparatus for Explosive Gas Atmospheres - Part 0: General Requirements
ANSI/UL 60079-11:2013	Electrical apparatus for Explosive Gas Atmospheres - Part 11: Intrinsic Safety "i"
ANSI/ISA-60079-28-2013, Ed. 1.1	Explosive atmospheres - Part 28: Protection of equipment and transmission systems using optical radiation
ANSI/ISA-12.12.01-2013	Non-incendive Electrical Equipment for Use in Class I and II, Division 2 and Class III, Divisions 1 and 2 Hazardous (Classified) Locations
ANSI/ISA-61010-1 3 rd Edition	Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use - Part 1: General Requirements - Third Edition
ANSI/ISA-60079-28-2013, Ed. 1.1	was used for guidance to permit "op is" marking for Canada, as there is no Canadian equivalent to ANSI/ISA-60079-28-2013, Ed. 1.1.