

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.:	IECEx BAS 18.0035X	Page 1 of 4	Certificate history:	
Status:	Current	Issue No: 2	Issue 1 (2019-09-05) Issue 0 (2018-08-22)	
Date of Issue:	2021-08-04			
Applicant:	Sensear Pty Limited 197-199 Great Eastern Highway Belmont WA 6104 Australia			
Equipment:	SM1P Headset			
Optional accessory:	MFP00148 Boom Microphone; SMBM00	02 Throat Microphone; SRCK61XXCCXXSM1P Ex	Interface Cable	
Type of Protection:	Intrinsic Safety			
Marking:	With BAT00003: Ex ia I Ma (-20°C ≤ Ta ≤ +60°C) Ex ia IIC T3 Ga (-20°C ≤ Ta ≤ +40°C)			
	With BAT00005: Ex ib I Mb (-20°C ≤ Ta ≤ +60°C) Ex ib IIC T4 Gb (-20°C ≤ Ta ≤ +40°C) Ex ib IIIC T155°C Db (-20°C ≤ Ta ≤ +40°	C)		
Approved for issue of Certification Body:	n behalf of the IECEx	R S Sinclair		
Position:		Technical Manager		
Signature:		Rectificat Manager		
(for printed version)		04/08/2021		
Date:				
2. This certificate is not	chedule may only be reproduced in full. transferable and remains the property of the issuin enticity of this certificate may be verified by visiting v			
Certificate issued	by:			
SGS Baseefa Lir Rockhead Busir Staden Lane		S	GS	

Buxton, Derbyshire, SK17 9RZ United Kingdom



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Manufacturer:	Sensear Pty Limited 197-199 Great Eastern Highway Belmont WA 6104 Australia		
Additional manufacturing locations:			
IEC Standard list bel found to comply with	ow and that the manufacturer's quality s	system, relating to the Ex pr	as assessed and tested and found to comply with the oducts covered by this certificate, was assessed and subject to the conditions as set out in IECEx Scheme
STANDARDS : The equipment and a to comply with the fo		in the schedule of this certil	ficate and the identified documents, was found
IEC 60079-0:2017 Edition:7.0	Explosive atmospheres - Part 0: Equi	pment - General requireme	nts
IEC 60079-11:2011 Edition:6.0	Explosive atmospheres - Part 11: Equ	ipment protection by intrins	sic safety "i"
	This Certificate does not indicate other than those expre	compliance with safety and essly included in the Standa	
TEST & ASSESSME A sample(s) of the ed	ENT REPORTS: quipment listed has successfully met the	examination and test requ	irements as recorded in:
Test Reports:			
GB/BAS/ExTR18.01	15/00 GB/BAS/ExTR ²	19.0166/00	GB/BAS/ExTR21.0136/00

Quality Assessment Report:

AU/TSA/QAR10.0006/09



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

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The Type SM1P Electronic Ear-Muff is a battery powered, noise cancelling, headphone set designed to reduce background noise. It consists of two, plastic, ear cups each of which contains a speaker. Attached to the left-hand ear cup is a boom microphone, assembly number MFP00148 or throat microphone SMBM0002. These are plugged into a connector mounted in the left-hand ear cup enclosure wall. Small microphones are also mounted in both the left-hand side and the right-hand side enclosure walls, one in each. The right-hand, ear cup has a compartment with a lid which contains two connectors, i.e. a USB connector and a 3.5 mm stereo connector. A connector mounted in the right-hand, ear cup enclosure wall is used to optionally connect an external radio via a separate, cable mounted, interface unit identified as an SRCK61XXCCXX SM1P Ex Interface Cable, this interface being associated with, and certified as part of, this equipment. The SRCK61XXCCXX Interface Cable has the following intrinsic safety parameters at the radio connector:

IIC	IIIC
8.4V	8.4V
0.1µF	0.1µF
0µH	0µH
0.42A	0.42A
1.3W	1.3W
4.1V	4.1V
7.7mA	7.7mA
6mW	6mW
100uF	100uF
600mH	600mH
	8.4V 0.1µF 0µH 0.42A 1.3W 4.1V 7.7mA 6mW 100uF

The following models are covered by this certificate:

SM1PBase Model - All Features SM1PW - No cabled Connection to any other device. Bluetooth® only - No Cable, No Short Range Radio - Just Bluetooth® XBT SM1PDP - Same as base Model: removes large speaker - adds earplugs with transducers - No Short Range Radio, No Bluetooth® SM1B SM1PWDP - No cable connection, removes large speaker - adds earplugs with transducers

SPECIFIC CONDITIONS OF USE: YES as shown below:

1. Potential Electrostatic hazard, clean with damp cloth only

2. The operating ambient temperature range is: -20°C to +60°C for Group I and: -20°C to +40°C for Group IIC and IIIC



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above) Variation 2.1

This issue permits additional entity parameters and confirms the current design meets the requirements of EN IEC 60079-0:2018.

ExTR: GB/BAS/ExTR21.0136/00 File Reference: 21/0525
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