

1 **EU - TYPE EXAMINATION CERTIFICATE**

2 **Equipment or Protective System Intended for use in Potentially Explosive Atmospheres  
Directive 2014/34/EU**

3 EU - Type Examination Certificate Number: **Baseefa18ATEX0049X**

4 Product: **SMIP Headset**

5 Manufacturer: **Sensear Pty Limited**

6 Address: **197-199 Great Eastern Highway, Belmont, WA, 6104, Australia**

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

8 SGS Baseefa, Notified Body number 1180, in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential Report No. **GB/BAS/ExTR18.0115/00**

9 Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

**EN 60079-0: 2012 + A11: 2013**                      **EN 60079-11: 2012**

except in respect of those requirements listed at item 18 of the Schedule.

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

11 This EU - TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

12 The marking of the product shall include the following :

⊕ II 1G Ex ia IIC T3 Ga (-20°C ≤ Ta ≤ +40°C)

⊕ I M1 Ex ia I Ma (-20°C ≤ Ta ≤ +60°C)

SGS Baseefa Customer Reference No. **7853**

Project File No. **17/0593**

This document is issued by the Company subject to its General Conditions for Certification Services accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and the Supplementary Terms and Conditions accessible at <http://www.sgs.com/SGSBaseefa/Terms-and-Conditions.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained herein reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. It does not necessarily indicate that the equipment may be used in particular industries or circumstances. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, schedule included, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

**SGS Baseefa Limited**

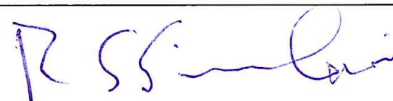
Rockhead Business Park, Staden Lane,  
Buxton, Derbyshire SK17 9RZ

Telephone +44 (0) 1298 766600 Fax +44 (0) 1298 766601

e-mail [baseefa@sgs.com](mailto:baseefa@sgs.com) web site [www.sgs.co.uk/sgsbaseefa](http://www.sgs.co.uk/sgsbaseefa)

Registered in England No. 4305578.

Registered address: Rossmore Business Park, Ellesmere Port, Cheshire, CH65 3EN

A handwritten signature in blue ink, appearing to read 'R S Sinclair'.

R S SINCLAIR

TECHNICAL MANAGER

On behalf of SGS Baseefa Limited

13

## Schedule

14

Certificate Number Baseefa18ATEX0049X

### 15 Description of Product

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:

U <sub>i</sub> = 8.4V	U <sub>o</sub> = 4.1V
C <sub>i</sub> = 0.15μF	I <sub>o</sub> = 7.7mA
L <sub>i</sub> = 0μH	P <sub>o</sub> = 6mW
	C <sub>o</sub> = 100μF
	L <sub>o</sub> = 600mH

The following models are covered by this certificate:

SM1P	Base Model – All Features
SM1PW	No cabled Connection to any other device. Bluetooth® only
XBT	No Cable, No Short Range Radio – Just Bluetooth®
SM1PDP	Same as base Model: removes large speaker – adds earplugs with transducers
SM1B	No Short Range Radio, No Bluetooth®

### 16 Report Number

GB/BAS/ExTR18.0115/00

### 17 Specific Conditions of Use

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

### 18 Essential Health and Safety Requirements

In addition to the Essential Health and Safety Requirements (EHSRs) covered by the standards listed at item 9, the following are considered relevant to this product, and conformity is demonstrated in the report:

Clause	Subject
1.2.7	LVD type requirements
1.2.8	Overloading of equipment (protection relays, etc.)
1.4.1	External effects
1.4.2	Aggressive substances, etc.

**19 Drawings and Documents**

Number	Sheet	Issue	Date	Description
IECEEx034	4	AA.03	12/05/2011	PCB00040 Specification
IECEEx037	10	AA.02	5/05/2011	PCB00040(AA.03) PCB Layout
IECEEx101	1	AA.01	15/03/2017	SM1P I.S. RHS PCB00088 BOM
IECEEx102	1	AA.02	07/07/2018	SM1P I.S. LHS PCB00087 BOM
IECEEx103	5	AA.01	13/03/2017	SM1P I.S. RHS PCB00088 Specification
IECEEx104	4	AA.01	13/03/2017	SM1P I.S. LHS PCB00087 Specification
IECEEx105 (PCB00088)	6	AA.01	15/03/2017	SM1P I.S. RHS (Schematic)
IECEEx106	8	A	22/03/2017	SM1P I.S. RHS (PCB00088 PCB Prints)
IECEEx107 (PCB00087)	1	AA.01	17/07/2017	SM1P I.S. LHS (Schematic)
IECEEx108	2	A	17/07/2017	SM1P I.S. LHS (PCB00087 PCB Prints)
IECEEx115 (MFP00133)	1	AA.01	28/01/2015	MFP SDP SPEAKER HARNESS
IECEEx116 (SMBM0002)	1	AA.01	13/07/2017	Throat Microphone
IECEEx117	1	AA.01	16/08/2018	SM1P EX Interface Diagram
IECEEx118 (MFP00151)	1	AA.03	28/09/2016	MFP SM1R & SM1P SPEAKER HARNESS
IECEEx119	1	02	10/07/2018	SM1R-Boom Mic (Assy #: MFP00148)
IECEEx120	1	AA.02	13/06/2018	PCB00040 BOM
IECEEx121 (PCB00040)	1	AA.02	13/06/2018	SM1P Ex Inline Cable (Schematic)
IECEEx122 (SRCK61XXCCXX)	1	AA.01	12/06/2018	SM1P Ex Intrinsically Safe Inline Radio Connection
IECEEx123 (BAT00003)	2	AA.06	29/03/2018	Battery Pack
IECEEx124 (SGSCUS003)	1	AA.01	02/05/2018	SM1P Ex Control Drawing
IECEEx125	11	AA.01	13/06/2018	SM1PB Ex Certification Markings
IECEEx126	28	AA.01	13/06/2018	SM1P Series Ex Manual
IECEEx127	5	AA.01	08/07/2018	BAT00003 Battery Pack PCM PCB Layout
IECEEx128	6	AA.01	08/08/2018	SM1P Ex Encapsulation Drawing

These drawings are also associated and held with IECEEx BAS 18.0035X.