

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: **SM1P 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**

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SGS Baseefa Limited

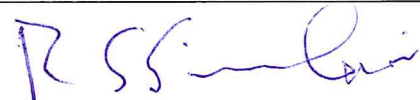
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R S SINCLAIR

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 _i = 8.4V	U _o = 4.1V
C _i = 0.15μF	I _o = 7.7mA
L _i = 0μH	P _o = 6mW
	C _o = 100μF
	L _o = 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
IECEX034	4	AA.03	12/05/2011	PCB00040 Specification
IECEX037	10	AA.02	5/05/2011	PCB00040(AA.03) PCB Layout
IECEX101	1	AA.01	15/03/2017	SM1P I.S. RHS PCB00088 BOM
IECEX102	1	AA.02	07/07/2018	SM1P I.S. LHS PCB00087 BOM
IECEX103	5	AA.01	13/03/2017	SM1P I.S. RHS PCB00088 Specification
IECEX104	4	AA.01	13/03/2017	SM1P I.S. LHS PCB00087 Specification
IECEX105 (PCB00088)	6	AA.01	15/03/2017	SM1P I.S. RHS (Schematic)
IECEX106	8	A	22/03/2017	SM1P I.S. RHS (PCB00088 PCB Prints)
IECEX107 (PCB00087)	1	AA.01	17/07/2017	SM1P I.S. LHS (Schematic)
IECEX108	2	A	17/07/2017	SM1P I.S. LHS (PCB00087 PCB Prints)
IECEX115 (MFP00133)	1	AA.01	28/01/2015	MFP SDP SPEAKER HARNESS
IECEX116 (SMBM0002)	1	AA.01	13/07/2017	Throat Microphone
IECEX117	1	AA.01	16/08/2018	SM1P EX Interface Diagram
IECEX118 (MFP00151)	1	AA.03	28/09/2016	MFP SM1R & SM1P SPEAKER HARNESS
IECEX119	1	02	10/07/2018	SM1R-Boom Mic (Assy #: MFP00148)
IECEX120	1	AA.02	13/06/2018	PCB00040 BOM
IECEX121 (PCB00040)	1	AA.02	13/06/2018	SM1P Ex Inline Cable (Schematic)
IECEX122 (SRCK61XXCCXX)	1	AA.01	12/06/2018	SM1P Ex Intrinsically Safe Inline Radio Connection
IECEX123 (BAT00003)	2	AA.06	29/03/2018	Battery Pack
IECEX124 (SGSCUS003)	1	AA.01	02/05/2018	SM1P Ex Control Drawing
IECEX125	11	AA.01	13/06/2018	SM1PB Ex Certification Markings
IECEX126	28	AA.01	13/06/2018	SM1P Series Ex Manual
IECEX127	5	AA.01	08/07/2018	BAT00003 Battery Pack PCM PCB Layout
IECEX128	6	AA.01	08/08/2018	SM1P Ex Encapsulation Drawing

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