Certification Scheme for

EXPLOSION-PROTECTED ELECTRICAL EQUIPMENT

ANZEX Scheme

Certificate of Conformity

Certificate No.: ANZEx 12.4123X Issue No.: 0 Date of Issue: 20 February 2013

Certificate Holder:

Casella CEL

Regent House, Wolseley Road, Kempston, Bedford, MK42 JY

UK

Electrical Apparatus:

CEL-35X/IS dBadge Series Dosimeter and Bruel & Kjaer Type 4448 x 002 Noise

Dose Meter

Type of Protection:

Ex i

Marking Code:

Ex ia I Ma & Ex ia IIC T2 Ga

ANZEx 12.4123X

Manufacturing Location(s):

Casella CEL

Regent House, Wolseley Road, Kempston, Bedford, MK42 JY

UK

This certificate and schedule shall not be reproduced except in full

Certificate issued by

ITACS°

ABN 06 098 886 563

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Accreditation by the Joint Accreditation System of Australia and New Zealand

Acc No. Z2870404AA

www.jas-anz.com.au\register

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ANZEx Scheme

Certificate No.: ANZEx 12.4123X Issue No.: 0 Date of Issue: 20 February 2013

This certificate is granted subject to the conditions as set out in Standards Australia/Standards New Zealand Miscellaneous Publication MP87.1-2008.

STANDARDS:

The electrical apparatus and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:

IEC 60079-0:2007 Electrical apparatus for explosive gas atmospheres -

Part 0: General requirements

IEC 60079-11:2006 Electrical apparatus for explosive gas atmospheres –

Part 11: Equipment protected by intrinsic safety "i"

IEC 60079-26: 2006 Electrical apparatus for explosive gas atmospheres –

Part 11: Equipment with equipment protection level (EPL) Ga

This Certificate does not indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above. Attention is also drawn to the fact that the above Standards have been superseded

TEST & ASSESSMENT REPORTS:

The equipment listed has successfully met the examination and test requirements as recorded in

Test Report No. and Issuing Body: GB/SIR/ExTR11.0110/01,

GB/SIR/ExTR11.0224/01, GB/SIR/ExTR11.0311/00 GB/SIR/ExTR12.0322/00 TRAU TR 19300581.001

Quality Assessment Report No. and Issuing Body: GB/SIR/QAR10.0002/02

File Reference: 1113004183 ANZ Ex 12.4123X

Signed for and on behalf of issuing body

Certification Authority

20 February 2012

Date of Issue

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ANZEx Scheme

Certificate No.: ANZEx 12.4123X Issue No.: 0 Date of Issue: 20 February 2013

Schedule

EOUIPMENT:

The CEL-35X/IS dBadge Series Noise Dosimeter aka Brüel & Kjær Type 4448 x 002 Noise Dose Meter is a miniature, fully integrated Noise Dosimeter used for the measurement of personal noise exposure. The series covered by this certificate are CEL-35X/IS, where X is any number from 0 to 9, and 'Type 4448 x 002, where x is any letter A, B,...'. The product is designed to be worn using a range of fixing methods, alternatively it may be mounted on a hard hat.

The device comprises a plastic enclosure that contains two printed circuit boards, an LCD display and rechargeable cells. Two rubber keys located on the sides of the product are used to control the instruments operation.

Power to the device is provided from two, internal and non-removable ½-AAA, cylindrical, nickel metal hydride cells. Two exposed contacts are located on the rear of the product for connection to a purpose designed, drop in, charger system. The charge contacts are protected from reverse current flow by three blocking diodes. The unit is not to be charged within a hazardous area.

Battery charging is only permitted using charger model number CEL-6362 aka ZG-0860'.

Noise is monitored using a screw on, ½" back, electret microphone, this is a high impedance capacitive type sensor, which can be removed for replacement or product testing. Measured noise data is downloaded to a PC (in the non-Hazardous area) using an infrared cable free communication link.

CERTIFICATION CONDITIONS: The following conditions apply:

Conditions of manufacture

1. When the 250 mAh cells are soldered to the PCB, the manufacturer shall ensure that the segregation between positive and negative of ≥ 0.5 mm through solid insulation and ≥ 1.5 mm creepage is maintained on the positive terminal

Special conditions of safe use

- The CEL-35X/IS dBadge Series Noise Dosimeter aka Brüel & Kjær Type 4448-x-002 Noise Dose Meter shall not be used in areas where a layer of coal dust may be deposited on the enclosure.
- 2 The microphone shall not be removed in the hazardous area.
- The CEL-35X/IS dBadge Series Noise Dosimeter aka Brüel & Kjær Type 4448-x-002 Noise Dose Meter shall only be recharged in a safe area with the charger model number CEL-6362 aka ZG-0860'.

Certification Scheme for

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ANZEx Scheme

| Certificate No.: ANZEx 12.4123X | Issue No.: 0 | Date of Issue: 10 February 2013 |
|---------------------------------|--------------|-----------------------------------|
| Columbia 110: 711 (ZZZZ 12011 | 10040110 | Date of issue: To I obtain a 2010 |

DRAWINGS:

The following Drawings are applicable to the original issue of this certificate, Issue 0

| Title | Drawing No.: | Rev Level | Date. |
|---|----------------------------------|--------------|------------|
| CEL-35x/IS dBADGE PSU BOARD CIRCUIT DIAGRAM | 93-193090D/IS-04 | 04 | 2009/09/30 |
| CEL-35x/IS dBADGE PSU BOARD CIRCUIT PROFILE & DRILLED | 02-193091C/IS-04 Sheets 1& 2 | 04 | 2007/03/21 |
| CEL-35x/IS dBADGE PSU BOARD S/A | 05-193092C/IS-04 | 04 | 2009/09/30 |
| CEL-35x/IS dBADGE PSU PCB S/A | 17-193093A/IS-03 | 03 | 2009/09/30 |
| CEL-35x/IS dBADGE PSU CASE BODY S/A | 03-193095D/IS-03 | 03 | 2009/09/24 |
| CEL-35x/IS dBADGE ANALOGUE & PROCESSOR CIRCUIT DIAGRAM | 93-193098D/IS-02 | 02 | 2008/02/20 |
| CEL-35x/IS dBADGE PROCESSOR BOARD PROFILE & DRILLED | 02-193099C/IS-01 Sheet 1 | 01 | 2007/02/23 |
| CEL-35x/IS dBADGE PROCESSOR BOARD ARTWORK | 02-193099C/IS-01 Sheet 2 | 01 | 2007/02/23 |
| CEL-35x/IS dBADGE PROCESSOR BOARD S/A | 05-193100C/IS-02 | 02 | 2008/02/20 |
| CEL-35x/IS dBADGE µPROCESSOR PCB S/A | 17-193101A/IS-02 Sheets 1 & 2 | 02 | 2008/04/17 |
| CEL-350 dBADGE I.S MICROPHONE INFORMATION | 17-193107A/IS-01 | 01 | 2007/03/28 |
| CEL-35X/IS dBADGE (I.P-RATED) CASE BODY S/A | 04-193118D/IS-05 | 05 | 2012/12/10 |
| B&K 'TYPE 4448' PERSONAL NOISE DOSE METER I.S. & NON-IS. CASE BODY S/A | 04-193260D/IS(SIRA)-02 | 02 | 2012/12/10 |
| CEL-350/IS dBADGE - I.S. (ITACS/TUV RHEINLAND) INFORMATION LABEL | 13-193096A/IS(TUV)-01 | 01 | 2012/12/20 |