

Certification of

EXPLOSION PROTECTED ELECTRICAL EQUIPMENT

Administered by: Standards Australia Quality Assurance Services

Certificate of Conformity

Certificate No.: **Ex 2490X** Issue 0: **2 October 2000** Original Issue

Date of expiry: **2 October 2010**

Certificate Holder: **MEDC**
Colliery Road
PINXTON NOTTINGHAM NG16 6JF UK

Electrical Equipment: **Sounder Types DB3, DB3L**
Speaker Types DB4, DB4L

Type of Protection and Marking Code: **Ex d IIC T3 (T_{AMB} - Refer Table 1)**
AUS Ex 2490X

Manufactured by: **MEDC**

Issued by:



Engineering, Testing and Certification Centre

2 Smith Street, REDBANK, QLD 4301, Australia

Postal Address: PO Box 467, GOODNA, QLD 4300, Australia

Phone: + 61 7 3810 6381

Fax: + 61 7 3810 6366



Quality System Certified to
AS/NZS ISO 9001
Certification No 6039

STANDARDS AUSTRALIA



Standards Australia Quality Assurance Services Pty Limited A.C.N. 050 611 642

Certification of

EXPLOSION PROTECTED ELECTRICAL EQUIPMENT

Administered by: Standards Australia Quality Assurance Services

This certificate is granted subject to the conditions as set out in Standards Australia Miscellaneous Publication MP 69 and the Procedures (Doc Q7134) of the scheme.

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

AS 2380.1 - 1989	Electrical equipment for explosive atmospheres - Explosion-protection techniques - Part 1 : General requirements (Amdt 1, 5 September 1998)
AS 2380.2 - 1991	Electrical equipment for explosive atmospheres - Explosion-protection techniques - Part 2 : Flameproof enclosure d (Amdt 1, 13 July 1992)

This certificate does not ensure compliance with electrical safety and performance requirements other than those included in the standards listed above.

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

Test Report No: **NE00/0023**

File Reference: **00/0084 P80884**



Signed for and on behalf of issuing authority

**Senior Engineer - Certification
Engineering, Testing and Certification Centre**

Position

2 October 2000

Date of issue

This certificate and schedule may not be reproduced except in full.

This certificate is not transferable and remains the property of Standards Australia Quality Assurance Services and must be returned in the event of its being revoked or not renewed.

Certificate No.: Ex 2490X

Issue: 0

Issued by:



Engineering, Testing and Certification Centre

2 Smith Street, REDBANK, QLD 4301, Australia

Postal Address: PO Box 467, GOODNA, QLD 4300, Australia

Phone: + 61 7 3810 6381

Fax: + 61 7 3810 6366



Quality System Certified to
AS/NZS ISO 9001
Certification No 6039

STANDARDS AUSTRALIA



Standards Australia Quality Assurance Services Pty Limited A.C.N. 050 611 642

Certification of **EXPLOSION PROTECTED ELECTRICAL EQUIPMENT**

Administered by: Standards Australia Quality Assurance Services

Schedule

Equipment:

The DB3 Sounder and the DB4 Speaker comprises a cylindrical housing, a bolted cover and are manufactured in glass reinforced polyester. The equipment has the option of either a long or a short flare arrangement fitted to the housing. A sintered element is fitted internally in the housing to facilitate the transmission of the sound energy. Two threaded entries are provided on the side walls for the fitting of appropriately certified cable glands.

The DB3 Sounder is rated up to 15W, 254V a.c. or 48V d.c. The DB4 Speaker is rated up to 100V a.c. with a maximum power dissipation of 25W.

The range of equipment covered by this test report is listed in Table 1. The suffix "L" in the type name refers to low temperature applications.

TABLE 1. RANGE OF DB3 SOUNDERS AND DB4 SPEAKERS

Unit Type	Power Rating	Ambient Temp.
DB4	Up to 15W	-20°C to +55°C
	From 15W to 25W max.	-20°C to +50°C
DB4L	Up to 15W	-55°C to +55°C
	From 15W to 25W max.	-55°C to +50°C
DB3	Up to 15W	-20°C to +55°C
DB3L	Up to 15W	-55°C to +55°C

Certificate No.: Ex 2490X Issue: 0 Date of Issue: 2 October 2000

Issued by:



Engineering, Testing and Certification Centre

2 Smith Street, REDBANK, QLD 4301, Australia
Postal Address: PO Box 467, GOODNA, QLD 4300, Australia
Phone: + 61 7 3810 6381 Fax: + 61 7 3810 6366



Quality System Certified to
AS/NZS ISO 9001
Certification No 6039

STANDARDS AUSTRALIA



Standards Australia Quality Assurance Services Pty Limited A.C.N. 050 611 642

Certification of

EXPLOSION PROTECTED ELECTRICAL EQUIPMENT

Administered by: Standards Australia Quality Assurance Services

Addendum to Certificate No.: **Ex 2490X**

Issue: **0**

Date of Issue: **2 October 2000**

Drawings:

DRAWING NUMBER	DRAWING TITLE	REVISION NUMBER	DRAWN/ REVISION DATE
199-358	CERTIFICATION LABEL ALTERNATIVE POSITION DB3 & DB4 SOUNDER & SPEAKER	A	23/03/00
199-359 SHEET 1 OF 2	DB4 SPEAKER CERTIFICATION G.A	C	30/08/00
199-359 SHEET 2 OF 2	DB4 SPEAKER CERTIFICATION GA	B	08/08/00
219-242	DB3 SOUNDER CERTIFICATION G.A	C	30/08/00

Conditions of Certification:

Cable selection shall be in accordance with the following:

Unit	Limiting Temperature for Insulated Cables (°C)	Power Dissipation
DB4, DB4L	75	Up to 11W
	90	From 11W up to 22W
	120	From 22W up to 25W
DB3, DB3L	75	up to 6W
	90	From 6W up to 12.5W
	120	From 12.5W up to 15W

Note: Refer Table 1 for maximum power dissipation permitted in each unit

Issued by:



Engineering, Testing and Certification Centre

2 Smith Street, REDBANK, QLD 4301, Australia

Postal Address: PO Box 467, GOODNA, QLD 4300, Australia

Phone: + 61 7 3810 6381

Fax: + 61 7 3810 6366



Quality System Certified to
AS/NZS ISO 9001
Certification No 6039

STANDARDS AUSTRALIA



Standards Australia Quality Assurance Services Pty Limited A.C.N. 050 611 642

Certification of

EXPLOSION PROTECTED ELECTRICAL EQUIPMENT

Administered by: Standards Australia Quality Assurance Services

Addendum to Certificate No.: **Ex 2490X**

Issue: **0**

Date of Issue: **2 October 2000**

Additional Information:

Routine pressure testing shall be carried out on the DB3, DB3L, DB4 and the DB4L enclosures at a pressure of not less than 1077kPa.

Issued by:



Engineering, Testing and Certification Centre

2 Smith Street, REDBANK, QLD 4301, Australia

Postal Address: PO Box 467, GOODNA, QLD 4300, Australia

Phone: + 61 7 3810 6381

Fax: + 61 7 3810 6366



**Quality System Certified to
AS/NZS ISO 9001
Certification No 6039**

STANDARDS AUSTRALIA



Standards Australia Quality Assurance Services Pty Limited A.C.N. 050 611 642