



Electrical Apparatus for Explosive Atmospheres  
**CERTIFICATE OF CONFORMITY**

Cert. No.: CNEx19.2391X

**Manufacturer** Eaton MEDC Limited  
Unit B, Sutton Parkway, Oddicraft Lane, Sutton-in-Ashfield, NG175FB, UK

**Name of Product** Loudspeaker

**Type of Product** DB4BE GD

**Marking** Ex de IIC T\* Gb  
Ex tD A21 IP6X T\*\*C(See Annex)

**Drawing No.** 399-101, 419-108

The drawings, technical documents and the samples are verified and certified according to standard(s) for safety as below:

GB 3836.1-2010	Explosive atmospheres - Part 1: Equipment - General requirements
GB 3836.2-2010	Explosive atmospheres - Part 2: Equipment protection by flameproof enclosure "d"
GB 3836.3-2010	Explosive atmospheres - Part 3: Equipment protection by increased safety "e"
GB12476.1-2013	Electrical apparatus for use in the presence of combustible dust -Part 1: General requirements
GB12476.5-2013	Electrical apparatus for use in the presence of combustible dust - Part 5: Protection by enclosures "tD"

**Note**

1. Temperature range:  $-50^{\circ}\text{C} \leq T_a \leq +^{\circ}\text{C}$ , see Annex
2. This certificate is only valid in combination with the related Annex(2 pages in total)
3. Please read and understand the special conditions for safe use as stated in the Annex to this certificate

**Valid Date** From May 24, 2019 to May 23, 2024

**Issue Date** May 24, 2019

**Director**



**CHINA NATIONAL QUALITY SUPERVISION AND TEST CENTRE  
FOR EXPLOSION PROTECTED ELECTRICAL PRODUCTS**

Address: No.20 North Zhongjing Rd, Nanyang, Henan(473008), P.R.China  
Tel: 0377-63258564 Fax: 0377-63208175 [Http://www.china-ex.com](http://www.china-ex.com)

Note: This certificate is only valid for the products which identify with the sample(s) tested and verified. Holder(s) of this certificate have the responsibility to ensure the products complying with relevant standard(s).

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This product has been certified by Baseefa, under certificate number Baseefa13ATEX0233X/6, dated on 2019-02-05.

**Product Description:**

The DB4BE GD Loudspeaker may be rated up to 100V at either 8W, 15W or 25W and comprises a cylindrical body and two covers all moulded in Glass Reinforced Polyester. The front cover is an irregular shape which when fitted forms a chamber for the speaker driver assembly and is permanently sealed/filled with a potting compound. In the front of this cover is a fine stainless steel mesh pressed metal wire element to facilitate sound transmission.

The circular rear cover closes an Ex e terminal enclosure and is secured by three M5 stainless steel screws. The screws may be profiled to be retained within the rear cover during assembly/dis-assembly. The Ex e chamber houses a certified terminal block of either 4, 6 or 8 (2x4) Ex e connection.

The base of this enclosure then forms the cover of the flameproof chamber and with integral cables passing through a potted bushing arrangement. The terminal enclosure is fixed with six M5x20mm long stainless steel socket head screws of grade A2-70 minimum.

The screws may be profiled to be retained within the rear cover during assembly/dis-assembly. The flameproof Chamber houses an assembly of a transformer and a control/terminal PCB.

Up to two M20 or M25 cable entries are provided in the side of the enclosure to accommodate suitably certified cable entry devices.

Issue Date                      May 24, 2019

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A plastic horn assembly (with either a long or short flare) is fitted externally to the front, and along the sides, of the enclosure, together with a mounting bracket. When the short flare is fitted the ingress protection is reduced to IP65

Model	Power	Temperature marking	IP Rating
DB4BE GD	8W	T4/T135°C(T <sub>amb</sub> =-50 C ≤ Ta ≤ +85°C)	IP65:When fitted with short flare IP66:When fitted with long flare
		T5/T100°C(T <sub>amb</sub> =-50 C ≤ Ta ≤ +55°C)	
		T6/T85°C(T <sub>amb</sub> =-50 C ≤ Ta ≤ +40°C)	
	15W	T3/T200°C(T <sub>amb</sub> =-50 C ≤ Ta ≤ +85°C)	
		T4/T135°C(T <sub>amb</sub> =-50 C ≤ Ta ≤ +70°C)	
		T5/T100°C(T <sub>amb</sub> =-50 C ≤ Ta ≤ +40°C)	
	25W	T4/T135°C(T <sub>amb</sub> =-50 C ≤ Ta ≤ +70°C)	
		T5/T100°C(T <sub>amb</sub> =-50 C ≤ Ta ≤ +40°C)	

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