

# Speakers - Up to 25 Watts, Hazardous Location, Weatherproof DB4 Range



15W/20W/25W (Long Flare)

8W (Short Flare)

### Description:

This range of loudspeakers, intended for use in potentially explosive gas and dust atmospheres, has a power rating of up to 25 watts and is suitable for use in all gas groups including hydrogen.

The flamepaths, flare and the body, are manufactured completely from a UV stable glass reinforced polyester. Stainless steel screws and sinter are incorporated thus ensuring a corrosion free product. A tapered flamepath is used to overcome the problems of assembly of parallel spigot flamepaths.

This product does not include a blocking capacitor. Contact Cooper Wheelock Technical Support for models with a blocking capacitor\*.

\*Coming Soon

#### Features\*:

- ★ UL listed for USA and Canada:
  - Class I, Div 2, Groups A-D.
  - Class I, Zones 1, AExd IIC, T4
  - Class II, Div 2, Groups F & G
- ★ ATEX approved
- ★ NEMA 4x & 6, IP66 and IP67
- ★ Certified temperature –67°F to +158°F (-55°C to +70°C)
- ★ GRP corrosion-free flamepaths
- ★ 109dBA at 25 watts at 10 feet
- ★ 8, 15 and 25 watt versions
- ★ Power tappings, via integral transformer
- ★ Ratcheted swivel bracket
- ★ Stainless steel sinter
- ★ Stainless steel mounting bracket
- ★ Tapered flamepath

#### **Architects and Engineers Specifications**

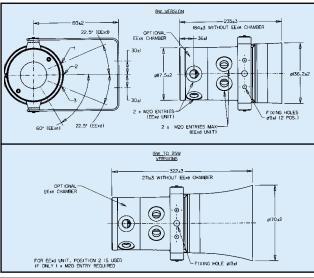
Speakers for hazardous locations and harsh environments shall be UL and cUL listed for Class I, Division 2, Groups A,B,C&D, and Class I, Zones 1, AExd IIC T4 applications. They shall be constructed of lightweight, UV stable glass reinforced polyester, shall be corrosion resistant, and shall meet NEMA 4x, NEMA 6, IP 66 & IP 67 environmental requirements over a temperature range of -67°F to +158°F (-55°C to +70°C).

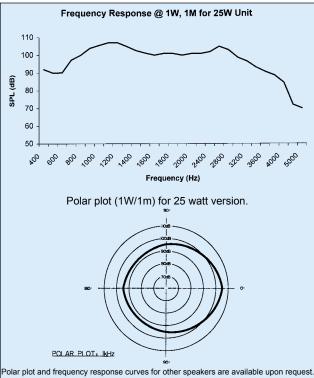
The speakers shall be rated for 70 vrms input with power taps for 1,2,4,6,12.5 or 25 watt operation. Rated sound output shall be up to 109 dBA at 10 feet and rated frequency response shall be 400Hz to 8kHz. The speakers shall include a stainless steel mounting bracket with ratchet facility to direct sound output.

Note: Due to continuous development of our products, specifications and offerings are subject to change without notice in accordance with Cooper Wheelock standard terms and conditions.



<sup>\*</sup>Depends on version





## Specification

-					
Rated Power:	8, 15 or 25 watts RMS continuous (at 77°F).				
Certification:	UL listed for USA and Canada:				
	<ul><li>Class I, Div 2, Groups A-D</li><li>Class I, Zones 1, AExd IIC T4.</li></ul>				
	<ul><li>Class II, Div 2, Groups F &amp; G</li></ul>				
	ATEX approved: EN50014, 18, 19.				
	No. BAS00ATEX2097X. EExd 11C T41/T5				
	Cert. No. BAS00ATEX2098X. EExd 11C T41/T5				
	Zones 1 not for use in atmospheres containing carbon disulphide				
Material:	Body & horn in anti-static, UV stable, glass reinforced polyester.				
	Swivel bracket in stainless steel.				
	Captive cover screws in stainless steel.				
Finish:	Body and horn, natural black or epoxy paint coated to client's color require-				
	ments.				
Output:	97 dBA at 1 Watt at 10 feet				
	109 dBA at 25 Watts at 10 feet				
	Measured in accordance with IEC 268.				
Weight:	11lb./5.0kg approx.				
Certified Temperature:	-67°F to +158°F (55°C to +70°C)				
Ingress Protection:	NEMA 4x & 6, IP66 & IP67.				
Frequency Range:	400Hz to 8kHz.				
Voice Coil Impedence:	8 ohms.				
Transformer:	Used to vary the rated power by selecting different tappings (see table below).				

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Transformer Power 25W 15W 8W Tappings 1:2 25.03 15.0° 8.0\* 2:3 12.5 7.5 4.0\* 5.0 3:4 6.0 2.0 1:3 4.0 4.0 1.5 2:4 2.0\* 2.0\* 0.7\*

0.4

Transformer Tappings
Transformer Options:

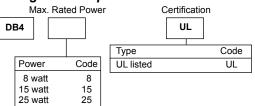
- i) Standard Tapping: (4 x 2) terminal tap change (8 terminals).
- Optional Tapping: 4 terminal tap change with 2 terminals (5 & 6), directly connected to driver (8 ohms).

Other tappings & driver impedances available on request.

Terminals:	8 x 14AWG			
Mounting:	Bracket with ratchet facility.			
Labels:	Duty and tag labels optional.			
Cable Entries:	2 x <sup>1</sup> / <sub>2</sub> " NPT.			

\*Include blocking capacitor for DC supervision of field wiring

## **Configuration Options:**



Order Code

Transf	ormer	
Transformer	Code	
Yes	X*	
None	N	
*Std 100V		
Other values available,		
specify voltage.		

Decription

109208-001 Speaker, 25 Watt, Transformer, Red Finish

109208-002 Speaker, 15 Watt, Transformer, Red Finish

	Labels		Entrie	S	Co	lor	
Label		Code	7	ſ	Color	(	Code
Duty		D*	7	Ī	Natural Black		N
Tag		T*			Red		R
None		N			Special		S*
*Please specify wording			J		*Please speci	fy	

Entries	Code
1 x 1/2" NPT	1C
2 x 1/2" NPT	2C

To specify certified plug, suffix appropriate code with "P". e.g. 2CP is 2 x 1/2" NPT entries with one certified plug



Series

DB4

DB4

**Standard Models** 

Model Number

DB425ULXN2CR

DB415ULXN2CR

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