

## 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
- California State Fire Marshal (CSFM) Listed
- ATEX approved
- NEMA 4x & 6, IP66 and IP67
- Certified temperature  $-67^{\circ}\text{F}$  to  $+158^{\circ}\text{F}$  ( $-55^{\circ}\text{C}$  to  $+70^{\circ}\text{C}$ )
- GRP corrosion-free flamepaths
- 109dBA at 25 watts at 10 feet
- 8, 15 and 25 watt versions
- Power tapings, via integral transformer
- Ratcheted swivel bracket
- Stainless steel sinter
- Stainless steel mounting bracket
- Tapered flamepath

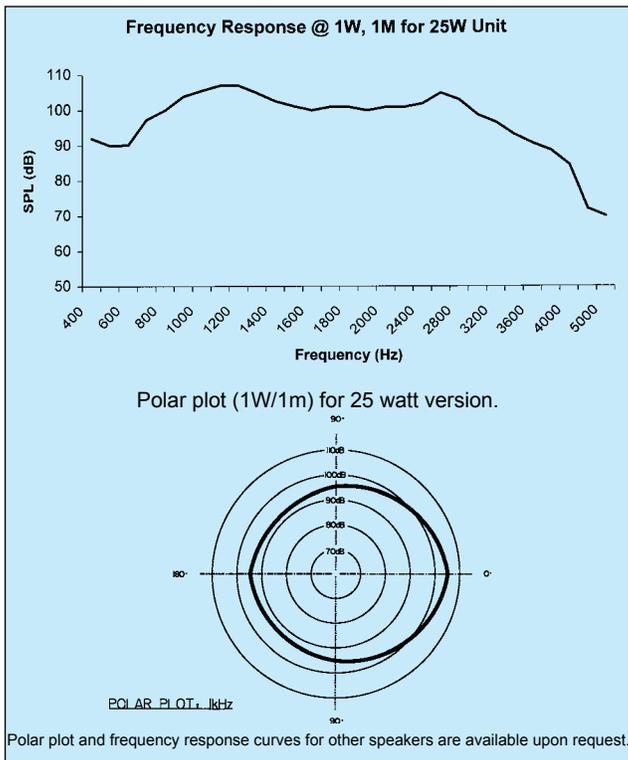
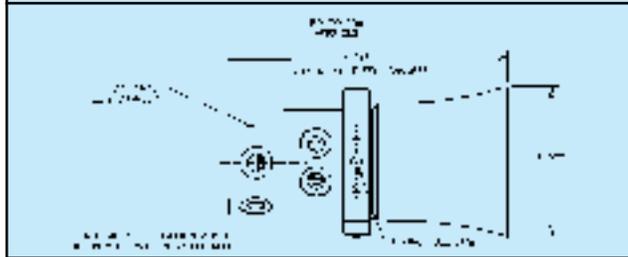
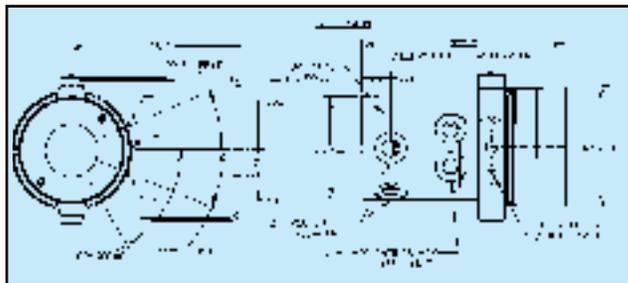
\*Depends on version

### **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  $-67^{\circ}\text{F}$  to  $+158^{\circ}\text{F}$  ( $-55^{\circ}\text{C}$  to  $+70^{\circ}\text{C}$ ).

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.



## Specification

Rated Power:	8, 15 or 25 watts RMS continuous (at 77°F).
Certification:	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 California State Fire Marshal (CSFM) Listed 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 requirements.
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 Impedance:	8 ohms.
Transformer:	Used to vary the rated power by selecting different tappings (see table below).

Transformer Tappings	Power		
	25W	15W	8W
1:2	25.0*	15.0*	8.0*
2:3	12.5*	7.5*	4.0*
3:4	6.0	5.0	2.0
1:3	4.0	4.0	1.5
2:4	2.0*	2.0*	0.7*
1:4	1.0	0.8	0.4

### Transformer Tappings

#### Transformer Options:

- 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 1/2" NPT.

\*Include blocking capacitor for DC supervision of field wiring

## Standard Models

Series	Model Number	Order Code	Description
DB4	DB425ULXN2CR	109207-001	Speaker, 25 Watt, Transformer, Red Finish
DB4	DB415ULXN2CR	109208-002	Speaker, 15 Watt, Transformer, Red Finish

## Configuration Options:

Max. Rated Power	Certification	Transformer	Labels	Entries	Color																																																
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To specify certified plug, suffix appropriate code with 'P'. e.g. 2CP is 2 x 1/2" NPT entries with one certified plug



WE ENCOURAGE AND SUPPORT NICET CERTIFICATION  
3 YEAR WARRANTY  
DB4 02/08

**NJ Location**  
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F: 732-222-8707  
www.coopernotification.com

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P: 941-487-2300  
F: 941-487-2389

**VA Location**  
P: 877-459-7726  
F: 703-294-6560

