

# HORNS – Up to 108 dB(A) Hazardous Location, Weatherproof DB3 Range



Horn/Strobe  
Combination Unit



**Now ULC listed**

## Introduction

This range of light weight all GRP, explosionproof horns intended for use in potentially explosive atmospheres has been designed with high ingress protection to cope with the harsh environmental conditions found offshore and onshore in the oil, gas and petrochemical industries.

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.

**European, Russian, Chinese and other worldwide approvals are available, refer to main catalog.**

- ★ UL listed for USA and Canada
  - Hazardous locations:
    - Class I, Div. 2, Groups A, B, C & D.
    - Class II, Div. 2, Groups F & G.
    - Class I, Zones 1 & 2, AExd IIC T4.
  - Ordinary locations: Audible-Signal device.
- ★ ULC listed to Canadian Safety Standards.
- ★ Conforms to ULC regulated power supplies.
- ★ CSFM approved.
- ★ ATEX approved.
- ★ NEMA 4x & 6, IP66 & 67.
- ★ Certified temperature –67°F to +158°F.  
–55°C to +70°C.
- ★ All GRP corrosion free.
- ★ Up to 108dBA output at 10 feet.
- ★ Integral volume control.
- ★ 27 tones, user selectable.
- ★ Two tones may be switched via the external voltage supply – AC or DC versions.
- ★ Horn/Strobe Combination Unit available.

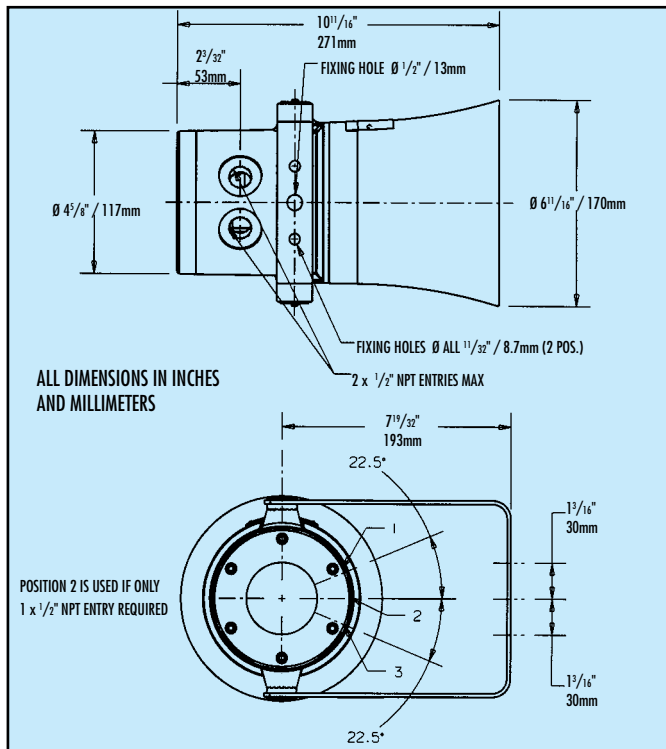
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# MEDC



Terminals:	4 x 14 AWG (a.c.), 6 x 14 AWG (d.c.).
Mounting:	Stainless steel bracket with ratchet facility.
Labels:	Duty and tag labels optional.
Cable Entries:	UP TO 2 x 1/2" NPT.
Tone Selection:	27 user selectable tones available.
Horn/Strobe Unit:	The DB3 may be combined with an MEDC strobe to create a combined audio/visual alarm. Contact MEDC for price and specification.
Two Stage Unit:	Switchable between two tones:
DB3P D.C.	(i) Reversing the polarity of the supply, or (ii) by a 3 wire common +ve system, switching between the two -ve lines.
A.C.	(iii) Closing/opening connection between 2 terminals e.g. by using a volt free relay contact at the panel. 2 tones must be specified at time of order.
3 & 4 Tone unit:	Remote 3 & 4 tone unit available – contact sales office for details.

## Ordering Requirements

The following code is designed to help in selection of the correct unit. Build up the reference number by inserting the code for each component into the appropriate box. **Standard products available ex-stock as follows:**

Product	Description
<b>DB3UL048N1CNR</b>	UL Listed, Class I & II, Div 2, Class I, Zones 1 & 2, 108 dB(A) output, 48V d.c., choice of 27 tones, red finish.
<b>DB3UL110N1CNR</b>	UL Listed, Class I & II, Div 2, Class I, Zones 1 & 2, 108 dB(A) output, 110V a.c., choice of 27 tones, red finish.

Type	Certification	Voltage	Labels	Entries	Features	Finish			
<div>DB3</div> <div>DB3P</div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>			
Certification	Code	Voltage	Code	Label	Code	Features	Code	Finish	Code
UL	UL	12V - 48V d.c.	048	Duty	D*	None	N	Natural Black	N
UL (ordinary locations)	UW	110V a.c.	110	Tag	T*	End of line resistor	E*	Red	R
ULC	UC*	120V a.c.	120	None	N			Special	S*
*ULC version only available with voltage Codes 012, 024, 048, 120. These codes conform to ULC regulated power supplies (excluding 048).		220V a.c.	220	*Please specify wording		*State value.		*Please specify	
		230V a.c.	230						
		240V a.c.	240						
		254V a.c.	254	Entries		Code		To order ATEX approved version, see European data sheet.	
		Regulated 12V d.c. (ULC only)	012	1 x 1/2" NPT		1C			
		Regulated 24V d.c. (ULC only)	024	2 x 1/2" NPT		2C			



All the above specifications, dimensions, weights and tolerances are nominal (typical) and MEDC reserve the right to vary all data without prior notice. No liability is accepted for any consequence of use.

## Specification

Certification:	UL Listed for USA and Canada – Hazardous locations: Class I, Div. 2, Groups A-D. Class II, Div. 2, Groups F & G. Class I, Zones 1 & 2, AExd IIC T4. UL Listing No. E203310. – Ordinary locations: Audible-Signal device. UL Listing No. S8116. ULC Listed: Listing No. CE132																
Material:	Body & horn in anti-static, UV stable, glass reinforced polyester. Swivel bracket and captive cover screws in stainless steel.																
Finish:	Body and horn, natural black or epoxy paint coated to client's color requirements.																
Sound Output:	DB3 105 ±3dB(A) Typical at 10 feet (tone dependent). ULC Rating: 102dB(A) at 3 metres.																
Volume Control:	Integral volume control																
<table border="1"> <thead> <tr> <th>*Nominal Output (dBA)</th><th>Input Current (mA)</th></tr> </thead> <tbody> <tr><td>83</td><td>50</td></tr> <tr><td>95</td><td>100</td></tr> <tr><td>98</td><td>150</td></tr> <tr><td>101</td><td>200</td></tr> <tr><td>102</td><td>250</td></tr> <tr><td>104</td><td>300</td></tr> <tr><td>105</td><td>350</td></tr> </tbody> </table>		*Nominal Output (dBA)	Input Current (mA)	83	50	95	100	98	150	101	200	102	250	104	300	105	350
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\*Output measured with 24V input voltage. Tone set to 970Hz continuous.

Weight:	13.2lb/6.0kg approx.																							
Certified	-67°F to +158°F.																							
Temperature:	-55°C to +70°C.																							
Ingress Protection:	NEMA 4x & 6, IP66 & 67.																							
Voltage:	Up to 48V d.c. Up to 254V a.c.																							
Current Consumption:	<table><tr><th>V</th><th>I</th></tr><tr><td>12V d.c.</td><td>760mA</td></tr><tr><td>24V d.c.</td><td>380mA</td></tr><tr><td>48V d.c.</td><td>190mA</td></tr></table>	V	I	12V d.c.	760mA	24V d.c.	380mA	48V d.c.	190mA	<table><tr><th>V</th><th>I</th></tr><tr><td>110V a.c.</td><td>135mA</td></tr><tr><td>120V a.c.</td><td>124mA</td></tr><tr><td>220V a.c.</td><td>68mA</td></tr><tr><td>230V a.c.</td><td>65mA</td></tr><tr><td>240V a.c.</td><td>62mA</td></tr><tr><td>254V a.c.</td><td>59mA</td></tr></table>	V	I	110V a.c.	135mA	120V a.c.	124mA	220V a.c.	68mA	230V a.c.	65mA	240V a.c.	62mA	254V a.c.	59mA
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