COMBINATION - BEACON SOUNDER

EExde, Weatherproof CU1 Range





Introduction

This range of beacon/sounder units, intended for use in potentially explosive gas and dust atmospheres, has a power rating of up to 10 watts (sounder) and 10 joules (beacon) and is suitable for use in the harsh environmental conditions found offshore and onshore in the oil, gas and petrochemical industries.

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

- ★ Zone 1, Zone 2 & non-Ex use.
- ★ EExde IIB T3.
- ★ ATEX approved, Ex II 2 G.
- ★ CENELEC approved.
- ★ BASEEFA certified.
- ★ IP66 and 67.
- ★ Certified temperature -50°C to +70°C*.
- ★ Up to 116dBA*.
- ★ 27 Tones, user selectable (dual tone option)
- ★ Tones comply with UKOOA/PFEER guidelines
- ★ Integral volume control
- ★ GRP corrosion-free flamepath.
- ★ Ratcheted swivel mouting stirrup.
- ★ Stainless steel fixtures.
- ★ Tapered flamepath.
 - *Model dependent.

MEDC Ltd, Colliery Road, Pinxton, Nottingham NG16 6JF, UK. Tel: +44 (0)1773 864100 Fax: +44 (0)1773 582800 MEDC International, 5829 West Sam Houston Parkway, North, Suite 1005, Houston, Texas 77041, USA. Tel: +1 (713) 937 9772

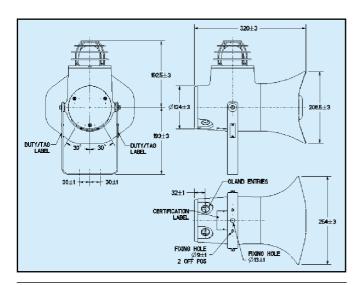
Fax: +1 (713) 937 9773

MEDC Norway, Auglaendsmyraa 6, 4016, Stavanger, Norge.

Tel: +47 913 92 289 Fax: +47 914 46 030

Sales Enq. Fax: +44 (0)1773 582830 Sales Orders Fax: +44 (0)1773 582832





Integral Volume Control:

Input Current (mA)		
460		
520		
670		
720		
1000		
1220		
138 <i>7</i>		

*Output measured with 24V input voltage. Tone set to 970Hz continuous, with 10 joule beacon set to 60 fpm.

Current Consumption at full power:

	1	
Input Voltage	10 Joule Beacon Sounder @ 60 fpm	5 Joule Beacon Sounder @ 60 fpr
24Vd.c.	1387mA	700mA†
48Vd.c.	864mA	
110Va.c.	365mA	
120Va.c.	417mA	
230Va.c.	1 <i>7</i> 2mA	
240Va.c.	182mA	
250Va.c.	241mA	

Specification

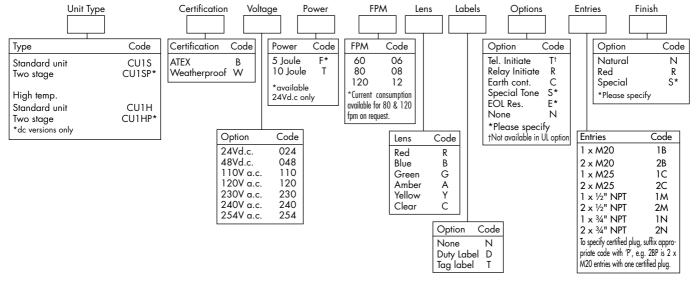
Specific	anon	
Certification:	CENELEC EN50014, 18 & 19. Baseefa Cert. No. Baseefa04ATEX0273X EExde IIB Zones 1 & 2.	
	Under review for UL listing.	
Material:	Body, flares & covers: Glass Reinforced Polyester (GRP). Lens: Glass Guard fitted as standard Cover screws & mounting strap: Stainless steel.	
Finish:	Natural black or epoxy painted to customer's requirements	
Weight:	6.5kg approx.	
Certified Temperature:	Standard unit: -50° C to $+50^{\circ}$ C (CU1-S & CU1-SP). High temperature unit: -50° C to $+70^{\circ}$ C (CU1-H & CU1-HP).	
IP Rating:	IP66 & 67.	
Earth Cont:	Available as an option.	
Terminals:	8 x 4.0mm ² .	
Initiation:	Remote relay or telephone initiate options available.	
Labels:	Duty/tag label option to customer's requirements.	
Entries:	Up to $2 \times M25$, $2 \times M25$ ISO, $2 \times M20$ with $\frac{1}{2}$ " NPT adaptor or $2 \times M25$ with $\frac{3}{4}$ " NPT adaptors into termination (EExe) chamber.	
Mounting:	Stainless steel bracket with ratchet facility.	
Maximum Output:	Standard unit: sounder 10 watts, beacon 5 or 10 joules. High temp. unit: sounder 5 watts, beacon 5 or 10 joules	
Sound Output:	Standard unit: $116dB(A) \pm 3 dB(A)$ (tone dependent). High temp. unit: $110 dB(A) \pm 3 dB(A)$ (tone dependent).	
Tone Selection:	27 user selectable tones.	
Two Stage Unit:	Switchable between any two tones by either: (i) reversing the polarity* of the supply, or (ii) by a 3 wire common +ve system, switching between the two -ve lines.	

Note: Two stage unit available in <u>d.c.</u> versions only. *will not effect beacon operation †Limited to 110dB(A)

In addition to the 10 Joule CU1 MEDC offer a 5 Joule, (low output sounder) 24Vd.c. version. Details are available on request.

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. For standard products, available ex-stock, contact sales office for details.





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.