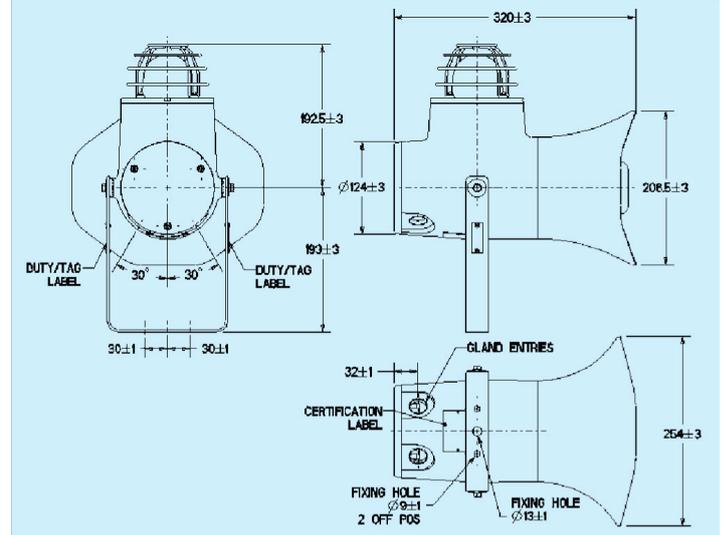


COMBINATION – BEACON SOUNDER EExde, Weatherproof CU1 Range



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
- IECEx approved, Ex II 2 G
- CENELEC approved.
- GOST 'R' & 'K' Certified.
- BASEEFA certified.
- Brazilian (Inmetro) certified.
- IP66 and 67.
- Certified temperature -50°C to $+60^{\circ}\text{C}^*$.
- Up to 116 dB(A)*.
- Version with independent beacon/sounder operation now available.
- 27 Tones, user selectable (dual tone option d.c. voltage)
- Tones comply with UK00A/PFEER guidelines
- Integral volume control
- GRP corrosion-free flamepath.
- Ratcheted swivel mouting stirrup.
- Stainless steel fixtures.
- Tapered flamepath.

*Model dependent.

Integral Volume Control:

Nominal Output (dB(A))	Input Current (mA)
90	460
95	520
100	670
102	720
105	1000
107	1220
116	1387

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

Current Consumption at full power:

Input Voltage	10 Joule Beacon Sounder @ 60 fpm	5 Joule Beacon Sounder @ 60 fpm
24Vd.c.	1387mA	700mA†
48Vd.c.	864mA	
110Va.c.	365mA	
120Va.c.	417mA	
230Va.c.	172mA	
240Va.c.	182mA	
250Va.c.	241mA	

In addition to the 10 Joule CU1, MEDC offers a 5 Joule/110dB(A), 24Vd.c. version. Details are available on request.

Specification

Certification:	CENELEC EN50014, 18 & 19. Baseefa Cert. No. Baseefa04ATEX0273X EExde IIB T3 Zones 1 & 2. Brazilian (Inmetro) Certified: BR-Ex de IIB T3 GOST R Certification: 2 EXde IIB T3 Russian Fire Alarm (VNIPO) approved. GOST K Certification: Exde IIB T3
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°C (CU1-S & CU1-SP). High temperature unit: -50°C to +70°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 x M25, 2 x M25 ISO, 2 x M20 with 1/2" NPT adaptor or 2 x M25 with 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) ± 3 dB(A) (tone dependent). High temp. unit: 110 dB(A) ± 3 dB(A) (tone dependent).
Tone Selection: Two Stage Unit:	27 user selectable tones. 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. If a two stage unit is ordered with either Independent Sounder/Beacon operation or Telephone or Relay Initiate, it will be wired for reverse polarity tone switching only, to allow loop in, loop out installation. Note: Two stage unit available in d.c. versions only. *will not affect beacon operation

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.**

(A) Unit Type:	Type	Code
	Standard unit	CU1S
	Two stage	CU1SP*
	High temp.	
	Standard unit	CU1H
	Two stage	CU1HP*
<i>*dc versions only</i>		
(B) Certification:	Certification	Code
	ATEX	B
	GOST 'R'	G
	GOST 'K'	K
	Inmetro	EM
	Weatherproof	W
	<i>*VINPO approved as standard</i>	
(C) Voltage:	Option	Code
	24Vd.c	024
	48Vd.c.	048
	110V a.c.	110
	120V a.c.	120
	230V a.c.	230
	240V a.c.	240
	254V a.c.	254
(D) Power:	Power	Code
	5 Joule	F*
	10 Joule	T
	<i>*available 24Vd.c only</i>	
(E) FPM:	FPM	Code
	60	06
	80	08
	120	12
	<i>*Current consumption available for 80 & 120 fpm on request.</i>	
(F) Lens:	Lens	Code
	Red	R
	Blue	B
	Green	G
	Amber	A
	Yellow	Y
	Clear	C

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(G) Labels:	Option	Code
	None	N
	Duty Label	D
	Tag Label	T
(H) Options:	Option	Code
	Tel. Initiate	T†
	Relay Initiate	R†
	Independent Beacon/Sounder	
	Operation	I†
	Earth cont.	C
	Special Tone	S*
	EOL Res.	E*
	None	N
	<i>*Please specify †T, R or I not available on same unit</i>	
	(I) Entries:	Entries
1 x M20		1B
2 x M20		2B
1 x M25		1C
2 x M25		2C
1 x 1/2" NPT		1M
2 x 1/2" NPT		2M
1 x 3/4" NPT		1N
2 x 3/4" NPT		2N
<i>To specify certified plug, suffix appropriate code with 'P', e.g. 2BP is 2 x M20 entries with one certified plug.</i>		
(J) Finish:	Option	Code
	Natural Black	N
	Red	R
	Special	S*
<i>*Please specify</i>		

ORDER CODE:

(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)