Sonotronics EMT-AR-3 tilt-pingers

The EMT-AR-3 tilt-pingers are configured to ping at a rate of 1 Hz when the pinger is oriented within 15 degrees of vertical, switching to a rate of 2 Hz when the tilt exceeds 15 degrees. These tilt-pingers are typically used on bottom mooring frames to ensure they are deployed upright. A hydrophone is lowered into the water and the ping rate can be heard on the pinger receiver speaker.

Specifications:

Frequency: 37 kHz Mounting Hole Size: 3/16"

Length: 201mm Range: up to 4 km

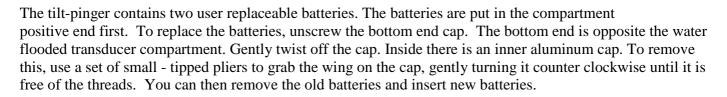
Diameter: 32mm Depth Rating: 1000 meter Weight (in air): 252g Lifetime: up to 6+ months

Weight (in water): 90g

Battery:

The pinger battery compartment will accept all of the following Tadiran lithium batteries:

Tadiran Batteries	Current Consumption	Source Level ref 1uPascal @ 1m	Battery Life
2x AA 3.6V 2.4Ah; Model TL5903	0.5mA	160db	4800hr (6+ mo)
3x 2/3AA 3.6V 1.5 Ah; TL5955	1.0mA	163db	1500hr (2+ mo)
4x 1/2AA 3.6V 1.1Ah; TL5902	6.5mA	166db	169hr (1 week)



The pingers can be put in sleep mode using the small magnet:

- These tags are shipped in a sleep mode. No magnet is required to keep the transmitter off. This is a new feature that reduces battery drain while the transmitters are off.
- To turn the transmitter on, place a magnet on the transmitter and hold while listening on a receiver tuned to the proper frequency. After two beeps, remove the magnet. After a few seconds the transmitter will turn on. On low frequency tags the delay will be longer, up to 15 seconds.
- 3. There are two ways to turn off the transmitter. To turn off in the traditional way, simply put a magnet on the transmitter and it will remain off after beeping twice and then emitting a series of three quick beeps. To put the transmitter in sleep mode, hold the magnet on for two beeps and remove the magnet. The transmitter will then emit a series of three beeps, followed by a longer beep. This means the transmitter is in sleep mode and will have less of a battery drain while off.



Appendices:

Model Data	Cell Size	Catalog No.	Nominal Voltage (V)	Nominal Capacity (Ah)	Nominal Discharge Current	Temperature range (°C)	Maximum Diameter	Dimensions Height	Available Terminations
Sheet	Ref				(mA)		(mm) (in	(mm) (in)	
<u>TLL-</u> 5902	1/2 AA	15-5902- yy530	3.6	1.10	1.0	-55° to +85°	14.5 0.57	1 25.2 0.992	SPTTPPTPT2
TL-595!	2/3 AA	15-5955- yy500	3.6	1.50	1.3	-55° to +85°	14.5 0.57	1 33.5 1.319	SPTTPPTPT2
<u>TL-5903</u>	AA	15-5903- yy500	3.6	2.40	2.0	-55° to +85°	14.5 0.57	1 50.5 1.998	SPITPPTPT2



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Notes about switch options on transmitters:

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Date:	10/9/2008		T
Invoice:	5981	Tag:	EMT-AR-3
Customer:	Rick Birch		
Tag#	Freq	Code	Interval
1	37	1-1-1-1	1000
2	37	1-1-1-1	1000
3	37	1-1-1-1	1000
4	37	1-1-1-1	1000
5	37	1-1-1-1	1000