

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 tilt-pinger contains two user replaceable batteries. The batteries are put in the compartment positive end first. To replace the batteries, unscrew the bottom end cap. The bottom end is opposite the water flooded transducer compartment. Gently twist off the cap. Inside there is an inner aluminum cap. To remove this, use a set of small - tipped pliers to grab the wing on the cap, gently turning it counter clockwise until it is free of the threads. You can then remove the old batteries and insert new batteries.

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

1. 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.
2. 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 Sheet	Cell Size Ref	Catalog No.	Nominal Voltage (V)	Nominal Capacity (Ah)	Nominal Discharge Current (mA)	Temperature range (°C)	Maximum Dimensions				Available Terminations
							Diameter		Height		
							(mm)	(in)	(mm)	(in)	
TLL-5902	1/2 AA	15-5902-yy530	3.6	1.10	1.0	-55° to +85°	14.5	0.571	25.2	0.992	S P I IP PI PT2
TL-5955	2/3 AA	15-5955-yy500	3.6	1.50	1.3	-55° to +85°	14.5	0.571	33.5	1.319	S P I IP PI PT2
TL-5903	AA	15-5903-yy500	3.6	2.40	2.0	-55° to +85°	14.5	0.571	50.5	1.998	S P I IP PI PT2



SONOTRONICS

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Notes about switch options on transmitters:

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Date:	10/9/2008		
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