



MAP Series

Technology: Acoustic

Product: Tag



MAP Acoustic Transmitters 76 KHz

MAP-Series acoustic transmitters are designed for operation with Lotek's unique MAP digital encoded telemetry systems. MAP acoustic systems permit the unique identification of over 80,000 individual animals. Both ID-only and ID plus sensors (temperature, pressure/depth and/or motion) can be simultaneously monitored and recorded. Unique CDMA digital coding permits simultaneous detection of hundreds of co-located transmitters at high repetition rates (to 40 transmissions per minute per tag), yielding data with higher temporal resolution and higher detection rates when compared to analog coding systems. When used in conjunction with WHS 3250 submersible receivers and Lotek UMAP positioning software, continuous high resolution 2D and 3D tracks of tag location in time are calculated.

Options

- Sensors: Temperature, pressure/depth, motion, temp/press, press/motion
- External attachment option available (increases transmitter length and weight)
- Available in standard or high power output

Features:



Temperature



Depth



Activity

Over 80,000 unique IDs:

Available on a single acoustic frequency

Unique digital CDMA encoding:

Permits simultaneous detection/decoding of hundreds of co-located transmitters

Rapid (to 1.5 sec) Burst Interval:

Results in efficient manual tracking and higher temporal resolution.

ID-only and real time Sensor data transmitters:

Sensor data can be monitored/tracked and recorded simultaneously.

Product Applications

Efficient, high speed manual tracking made possible through rapid transmission Burst Intervals, Continuous 2D/3D position tracks available for fine scale habitat

utilization and species interaction studies, Species migration timing/behavior around hydro-electric facilities.

Model	Sensor type	Physical specifications ^[1]		Life ^[2] (days)	
		Size (ØxL) (mm)	Weight (g)	5s interval	90s interval
MM-M-8-SO	ID-only	8.5 x 42	5.5	20	291
MM-M-11-SO	ID-only	11 x 42	6.6	20	291
MM-M-11-28	ID-only	12 x 60	11	100	1478
MM-M-11-45	ID-only	12 x 73	15	155	2300
MM-M-16-25	ID-only	16 x 57	26	194	3047
MM-M-16-33	ID-only	16 x 64	29	265	4156
MM-M-16-50	ID-only	16 x 80	35	424	6649

1. Size/weight specification tolerance typically ±5%. It is recommended that specifications be confirmed when placing an order. Sensors increase length by 3mm and weight by 0.5 (e.g. 8mm diameter tag) to 3 (e.g. 16 mm tag) grams.
2. Sensor option decreases expected life by approximately 3%

Warranty

MAP tags are warranted to be free of defects in materials and workmanship under Normal Use for a duration of 80% of Estimated Life to a Maximum of 3 years.

For Warranty terms and conditions, please review our [Warranty Statement](#).