Freshwater & Marine Acoustic

The MM-Series

Multi-Mode Acoustic Transmitters and Sensor Transmitters

(motion, temperature, pressure)

(compatible with MAP, SRX and Rcode Acoustic receiving systems)

For tracking at multiple scales of observation and environments.

As in other areas of fish and wildlife monitoring, Lotek is continuously expanding the boundaries of acoustic telemetry with a range of innovative options, including transmitters that combine multiple technologies for use in multiple habitats.

Multi-mode technology provides the means to track animals throughout a variety of applications or environments that may not be compatible with a single technology.

With the sensor option (motion, temperature, pressure), one can monitor fish depth, temperature and mobile state.

Key Features

- Compatible with multiple acoustic receiving systems, including MAP, SRX and Rcode within a single device thereby eliminating the need to double tag.
- Flexible duty cycle between transmission modes to optimize detection rates and data acquisition with respect to fish behavior.
- Permits simultaneous detection/decoding of hundreds of co-located transmitters.
- Works with both existing coastal scale and fine scale monitoring arrays.
- Also available in single and tri-mode operation.
- Cost effective solution for multiple technology deployments.
- Sensor transmitters offer a variety of depth ranges.
- Rapid transmission rates (5 seconds) for efficient mobile tracking.

The MM-Series

Applications

- Studies of migration activity of anadromous species from ocean through to spawning site
- Studies of lake dwellers moving between shallow and deep freshwater
- Micro-habitat utilization and species interaction 2D/3D
- Combines the ability to manually track, as well as autonomously log presence absence data, while collecting 2D and 3D positioning data at key areas of interest
- Monitoring of fish entrainment around hydro facilities during migration Dual Mode Operation

Specifications

	Physical Specifications		Calc Life
TAG MODEL	Size (d x length)	Weight	M = 5s / R = 60s
	(mm)	(g)	(days)
Dual Mode Operation - MAP Acoustic + R-code Acoustic			
MM-MR-8-SO	8.5 x 42	5.5	19
MM-MR-11-SO	11 x 38	6.6	19
MM-MR-11-28	12 x 60	11	95
MM-MR-11-45	12 x 73	15	148
MM-MR-16-25	16 x 57	26	182
MM-MR-16-33	16 x 64	29	248
MM-MR-16-50	16 x 80	35	397
Dual Mode Operation - MAP Acoustic + SRX Acoustic			
MM-MS-8-SO	8.5 x 42	5.5	16
MM-MS-11-SO	11 x 38	6.6	16
MM-MS-11-28	12 x 60	11	80
MM-MS-11-45	12 x 73	15	124
MM-MS-16-25	16 x 57	26	154
MM-MS-16-33	16 x 64	29	210
MM-MS-16-50	16 x 80	35	335
Dual Mode Operation - SRX Acoustic + R-code Acoustic			
MM-SR-8-SO	8.5 x 42	5.5	53
MM-SR-11-SO	11 x 38	6.6	53
MM-SR-11-28	12 x 60	11	261
MM-SR-11-45	12 x 73	15	406
MM-SR-16-25	16 x 57	26	512
MM-SR-16-33	16 x 64	29	698
MM-SR-16-50	16 x 80	35	1117
SENSOR OPTIONS - AVAILABLE FOR MM-MR, MM-MS, MM-MSR			
	Additional Size	Additional Weight	Change in Life
Motion	0 x 0	0.0	< 1%
Temperature + Pressure	0 x 5	0.5 - 3.0	< 1%
Pressure + Motion	0 x 5	0.5 - 3.0	<1%

LOTEK WIRELESS FISH & WILDLIFE MONITORING
Innovative solutions for a sustainable future.

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