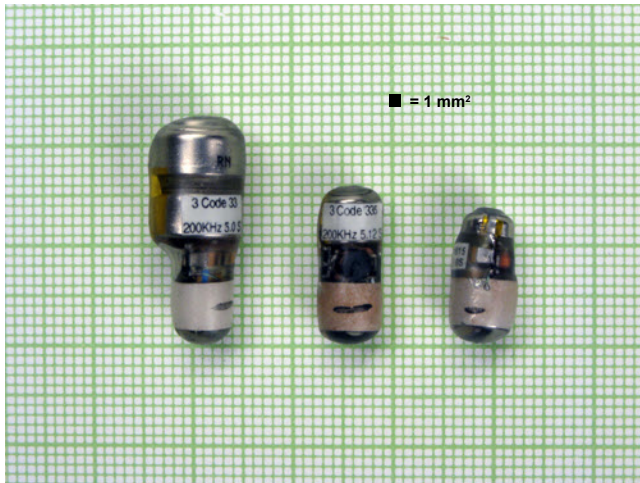


# M Series

## MAP Acoustic Transmitters



MAP8\_5S

MAP6\_2

MAP6\_1



MM-M-16-50

MM-M-16-25

MM-M-11-28

M Series acoustic transmitters are designed for operation with BioSonics Telemetry's unique MAP digital encoded telemetry systems. These systems allow over 80,000 unique ID's on a single acoustic frequency, while retaining the ability to identify individual animals. M Series acoustic transmitters are fully compatible with the BioSonics Telemetry WHS3000 Series and MAP600 Series Receivers.

### Key Features

- Over 80,000 unique ID's.
- Allows simultaneous detection/decoding of hundreds of co-located transmitters.
- On/off activation by magnet removal.
- Sensor option available (temperature, pressure, motion).
- ID-only and ID plus sensor transmitters can be detected/recorded simultaneously.

Some examples of real time and/or datalogging applications for which M Series coded transmitters are ideally suited include:

- Species interaction
- Migration/passage studies
- Fine-scale 2D and 3D habitat utilization
- Environmental assessment
- Aquaculture research including in-cage monitoring
- Behavior relative to hydro dam operations



# M Series

## Specifications

Tag Specifications		Physical Specifications		Calculated Life (days)	
Tag Model	Frequency (kHz)	Diameter x Length (mm)	Weight in air (g)	2.5 second period	5 second period
MAP6_1	200	6.2 x 13	0.9	35	54
MAP6_2	200	6.2 x 15	1.1	21	35
MAP7_2	200	7.5 x 20	2.2	25	43
MAP8_5S	200	9 x 27	4	128	218

Tag Specifications		Physical Specifications		Calculated Life (days)	
Tag Model	Frequency (kHz)	Diameter x Length (mm)	Weight in air (g)	2 second period	5 second period
MM-M-8-SO	76, 200	8.5 x 38	5.5	9	21
MM-M-11-SO	76, 200	11 x 38	6.6	9	21
MM-M-11-28	76, 200	12 x 56	10	42	104
MM-M-11-45	76, 200	12 x 72	14	65	162
MM-M-16-25	76, 200	16 x 57	26	80	198
MM-M-16-33	76, 200	16 x 64	29	109	271
MM-M-16-50	76, 200	16 x 80	35	174	433

## Notes on Specifications

1. Acoustic frequency 76 or 200 Khz.
2. All dimensions are for internal implantation.
3. External attachment option available, which slightly increases transmitter length and weight.
4. Size/weight specification tolerance typically  $\pm 2\%$  but periodic design modifications to individual models may result in greater deviation from specified above. It is recommended that specifications be confirmed when placing an order.
5. Warranty life is defined as 80% of the calculated life. Calculations are based on the battery manufacturer's specifications and tests performed at our factory.
6. Calculated life of MM-M tags listed for 76 KHz operation – add 25% for 200 Khz.
7. All tags are guaranteed to meet stated specifications upon shipment. Any BioSonics Telemetry tags found to be defective, with respect to material or workmanship, will be repaired or replaced.

