

SR-Series

Coded Radio Transmitters



SR-Series radio transmitters are designed for operation in Lotek digitally encoded telemetry systems. Based upon a proprietary coding scheme, these systems allow up to 521 transmitters on a single frequency, while retaining the ability to identify individual

animals. This capability significantly reduces the need for additional frequencies, with a corresponding reduction in total scan time over conventional pulsed systems. Spatial and temporal resolution is enhanced accordingly.

Key Features

- The use of the latest microprocessor technology results in a significant improvement in efficiency that extends operational life (nearly 100% over comparable models at 5 second burst rate) providing researchers with the option of reduced tag size and decreased impact upon the species of interest.
- The SR-series is compatible with sensor technology, including motion, pressure/depth, and temperature.

Applications

- long term (multi-year) studies
- fish passage evaluation
- microhabitat utilization
- monitoring of fish entrainment around hydro facilities during migration

SR Series

Specifications

- Operating Frequencies: 140-175 MHz
- Typical Frequency Separation: 10 kHz
- All transmitters are activated upon removal of a magnet
- Activation Programming:
 - delay start
 - definable hourly/ daily/weekly activation periods
 - 3 levels of programming available

Model	Physical Specifications			Estimated Life (days)	
	Size (dia x length) (mm)	Air weight (g)	Water weight (g)	2.0 sec. between bursts	5.0 sec. between bursts
SR-11-12	11 x 39	7.5	4.0	73	180
SR-11-18	11 x 45	8.0	4.0	183	449
SR-11-25	11 x 53	9.5	4.5	262	641
SR-11-35	11 x 61	11.5	6.0	367	898
SR-16-25	16 x 50	17.0	7.5	588	3 yr.**
SR-16-50	16 x 75	26.0	11.0	3 yr.**	3 yr.**
SR-M11-12	11 x 39	7.5	4.0	71	166
SR-M11-18	11 x 45	8.0	4.0	178	415
SR-M11-25	11 x 53	9.5	4.5	255	592
SR-M11_35	11 x 61	11.5	6.0	357	829
SR-M16-25	16 x 50	17.0	7.5	572	3 yr.**
SR-M16-50	16 x 75	26.0	11.0	3 yr.**	3 yr.**
SR-TP11-12	11 x 42	8.0	4.0	69	169
SR-TP11-18	11 x 48	9.0	4.5	172	422
SR-TP11-25	11 x 55	10.0	5.0	246	603
SR-TP11-35	11 x 64	12.0	6.0	344	844
SR-TP16-25	16 x 52	18.0	8.0	552	3 yr.**
SR-TP16-50	16 x 77	27.0	12.0	3 yr.**	3 yr.**
SR-PM11-12	11 x 42	8.5	4.0	69	160
SR-PM11-18	11 x 48	9.5	4.5	172	401
SR-PM11-25	11 x 55	11.0	5.0	246	572
SR-PM11-35	11 x 64	12.0	6.0	344	801
SR-PM16-25	16 x 52	18.0	8.0	552	3 yr.**
SR-PM16-50	16 x 77	27.0	12.0	3 yr.**	3 yr.**

Notes on specifications

- Physical dimensions and weights are typically within +/- +3% of listed specification. Periodic design modifications to individual transmitter models may alter specifications. Selection of external attachment design, sensor option or antenna may further affect stated specifications. It is recommended that specifications be confirmed when placing an order.
 - Transmitter operational life may vary, dependent in part upon the conditions to which they are subjected. For this reason, calculated operational life values are specified, based on component specifications and transmitter measurements.
 - Warranty life is defined as 80% of the calculated value effective from date of shipment. Limited warranty applies to transmitter models when operational life exceeds three years.
 - Any Lotek transmitter found to be defective with respect to material, workmanship or warranty life, will be repaired or replaced subject to Lotek product warranty conditions and limitations.
- ** Maximum warranty life is three (3) years (1095 days).

