

# MCFT2 Series

## Coded Radio Transmitters



MCFT2 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 MCFT2 Series also offers advanced and extremely flexible asynchronous ON/OFF and variable burst rate programming. The MCFT2 Series is compatible with sensor technology, including motion and temperature.

### Applications

- Long term (multi-year) studies
- Fish passage evaluation
- Microhabitat utilization
- Monitoring of fish entrainment around hydro facilities during migration

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- Receivers
- Dataloggers
- Radio transmitters

- Acoustic transmitters
- Archival tags
- GPS systems

- Hydrophones
- Wireless hydrophones
- 2D/3D Position systems

- Sensor Transmitters
- Accessories
- Consulting

# MCFT2 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 and burst rates
- Asynchronous 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
MCFT2-3BM	11 x 43	8.0	3.7	184/306	444/723
MCFT2-3B	14 x 37	9.0	4.0	66/110	160/258
MCFT2-3EM	12 x 53	10	4.3	219/364	528/860
MCFT2-3FM	11 x 59	11	4.6	366/609	882/1432
MCFT2-3LM	12 x 69	13	5.4	340/566	819/1330
MCFT2-3A	16 x 46	16	6.7	574	1376
MCFT2-3L	16 x 73	25	11	1241	2929

\* Standard Life/Extended Life

## Notes on specifications

Physical dimensions and weights are typically within  $\pm 3\%$  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. 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).

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