



Myotis Wireless builds unconventional radios for unconventional applications. Our new generation of low power, high performance radios deliver robust, long range data acquisition, wherever and whenever you need it.



Product Offering

Myotis radios help you take on data acquisition challenges you simply couldn't address before because our radios are designed especially for SCADA and telemetry applications.



The Myotis Advantage

Low power, long range

Myotis radios will operate for years on a handful of alkaline batteries, and provide data updates every few seconds. And they have the same range as other radios.

Myotis radios don't give up easily

Our patented spread spectrum technology helps our radios keep the link despite interference and multipath reflections.

Cost effective, less work

Myotis radios are straight forward to install and can self-commission. And with multi-year battery life, you won't be back to maintain them any time soon.

Key Benefits:

Reliable, long range connectivity to remote devices.

Modbus aware: configure and monitor the radio from your Modbus host.

Self powered option makes installation simple and fast.

Eliminates the need for expensive solar panels and batteries.

Contact us for more information:

Phone: (403) 471-0414

Fax: (403) 338-6399

Email: info@myotiswireless.com

www.myotiswireless.com

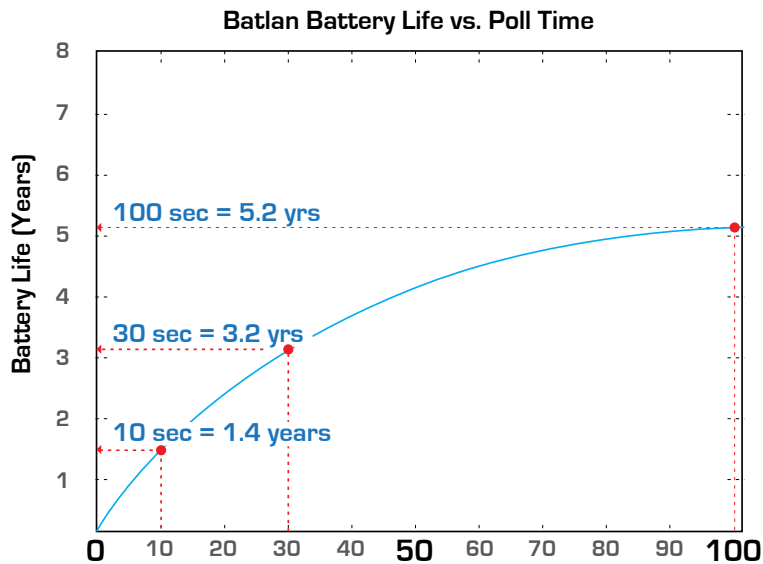
Head offices: Calgary, Alberta, Canada

Patented Technology

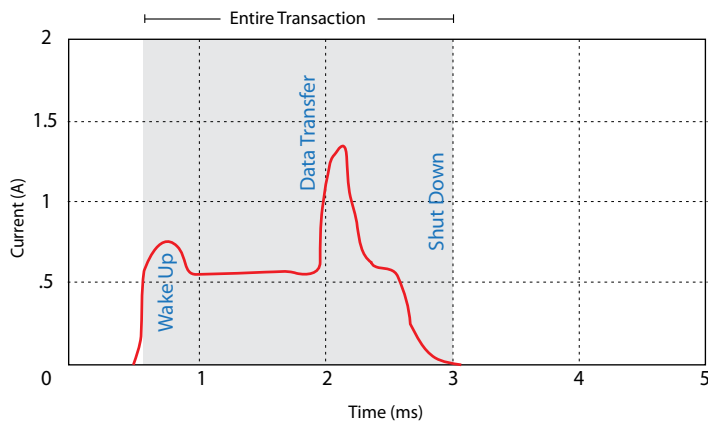
Our radios are powered by our unique chirp spread spectrum technology, called Batlan, which allows for both frequent updates and long battery life. The graph below shows how typical polling intervals result in a minimum three year battery life.

Powering our radios is very inexpensive and convenient, as batteries can be picked up at a local Canadian Tire or Walmart on the way to the site. Gathering information has never been this cheap and simple!

Battery life based on polling intervals



A Typical Myotis Radio Duty-Cycle



Batlan-based radios can duty-cycle reliably, that is, turn on fast, transmit and receive, and turn off just as fast. Our low power radios reside in sleep-mode until told to wake up. They transmit and receive in a few milliseconds, then go back to sleep. For more information, please visit our website

Customer Support

Myotis is committed to ensuring your operations run smoothly. We are available to serve you Monday through Friday and are on call for emergency and after hours support 7 days a week, 365 days a year.

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Specifications

Transceiver

Frequency Range	902-928 MHz
Output Power	+ 30 dBm minimum
Range - Line of Sight	Up to 50 km (30 mi)
Modulation	Direct Modulation Chirp Spread Spectrum
Occupied Bandwidth	8 Mhz
Antenna Connector	N female
Signaling Rate	500 KS/s

Receiver

Sensitivity	-100 dBm for BER 1x10 ⁻⁴
Dynamic Range	50 dB

Regulatory Approvals

RF	FCC Part 15, RSS210
Hazardous Location	CSA Class 1 Div 2

Data Transmission

Error Detection Interface	32 bit CRC, Retransmit on error
Protocol	RS 232/485, 115 Kbps at hub, 9.6 Kbps at remote
Flow control	Modbus ASCII
	3 wire, full buffering of incoming data

Data Connector

Terminal Block (remote and hub), RJ-45 (hub only)

Configuration and Diagnostics

Via Windows PC program (supplied) or Modbus SCADA host

Power Requirements

Voltage	9 to 16 VDC
Current	On -- 1.5A max Sleep -- 200 µA

General Information

Operating Temperature Range	-40 °C to +75 °C (-40° F to +167° F)
Humidity	0 to 95% non-condensing



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