

"some lead, others follow" !

Radio Telemetry

Long and Short range radio telemetry modems

The 'LR' and 'SR' modems are new range of digital radio telemetry systems to complement the Ohmex Tide Gauge and Weather station products, housed in a robust IP67 aluminium cases the modems are suitable for use in licence free Marine applications worldwide. The LR radios use a spread spectrum technology to avoid interference and provide clear data communications between modems at baud rates up to 115.2 Kbps. The SR radio system use 20 channels within the open license free EU radio frequencies The radios can be set up in secure Master, Slave or Repeater modes providing 'Point to Point' and 'Point to Multipoint' network combinations.



Long Range Modem



Short Range Modem

Ohmex Telemetry Features

- Inherent immunity to radio interference
- Low power consumption with standby modes
- Error free data transmission at upto 115 Kbaud
- IP67 weatherproof enclosures and connectors
- Wide range of antennas and connecting cables
- Licence free use worldwide



Power Supply/Connector box



OHMEX

www.tidegauge.com

www.echo-sounder.com

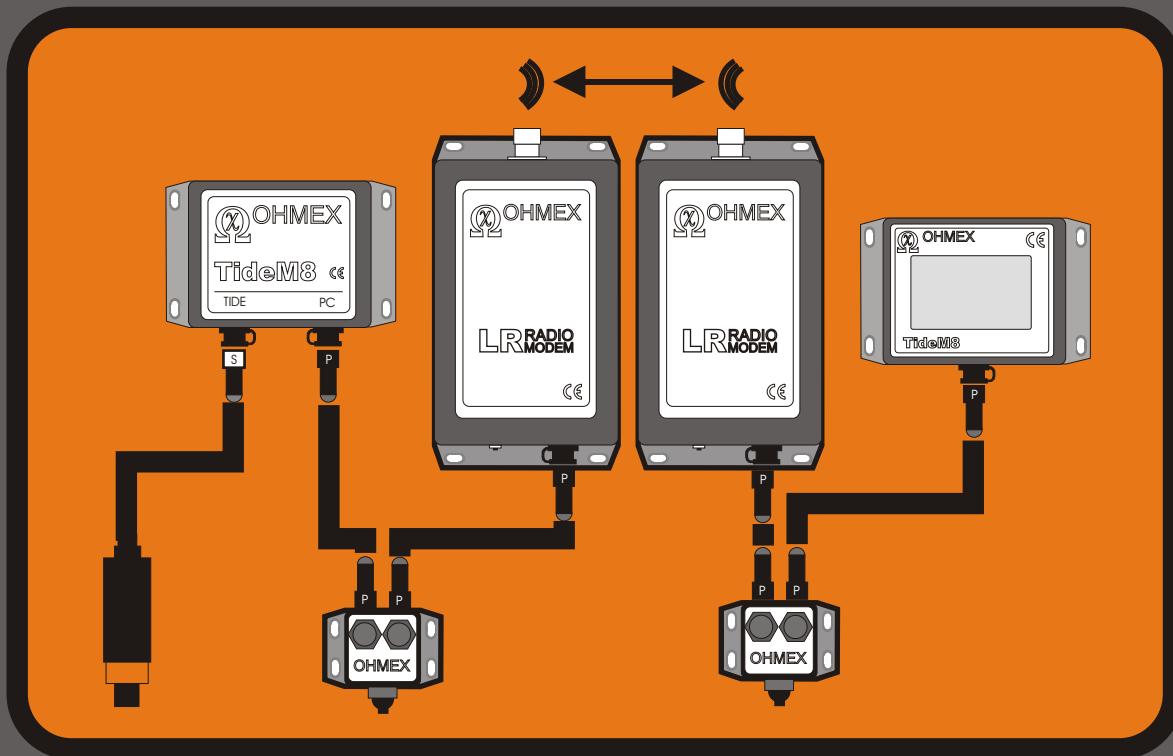
The LR Spread Spectrum Radio is a 1 Watt Spread Spectrum Radio that operates in the 2.4-2.83GHz ISM frequency range. The technology spreads the normally narrowband information signal over a relatively wide band of frequencies. This allows the communications to be more immune to noise and interference from RF sources such as pagers and cellular phones. The radio reduces susceptibility to RF interference from other spread spectrum devices by providing user-selectable frequency hopping patterns. The modem radio provides general purpose wireless data communications, and supports point-to-point and point-to-multipoint datalogger communications. It can serve as a field modem/radio while connected to the datalogger, a stand-alone repeater, or as a base station modem/radio when connected to a computer.

LR Specification

- Frequency: 2.4-2.83GHz
- Technology: Spread Spectrum
- Mode: Channel Hopping
- Channels: 108
- Range : Up to 25Km
- Power Supply: 12v DC
- Current Rx: 20ma
- Current Tx: 250ma

SR Specification

- Frequency: 868MHz
- Technology: FM
- Mode: FSK
- Channels: 20
- Range : Up to 1.5Km
- Power Supply: 12v DC
- Current Rx: 10ma
- Current Tx: 100ma



Typical Tide Gauge Telemetry layout

Ohmex is a company formed to manufacture and distribute products designed by L.M.Technical Services. This company established in 1982 was founded on technological innovation and design. The company prides itself on being the first to produce products in the field of instrumentation and software used within the Earth Science sectors. Achievements to date include DGM ,the first digital ground modeling software to run a standard PC, SONARLITE, the first truly portable echo sounder, TIDALITE the first portable Tide Gauge, EDAS, Integrated tide and weather networked software for use by ports and harbours. WinSTRUMENTATION - The integration of Instrumentation, Wireless networks and modern portable computer equipment.



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www.ohmex.com