

Looking over-not Overlooking Monitor the Radio System's Performance



RM4000™ and RAN-MAN™ Software **Signal Strength Display and Management for** **the LARS™ Radio Network**

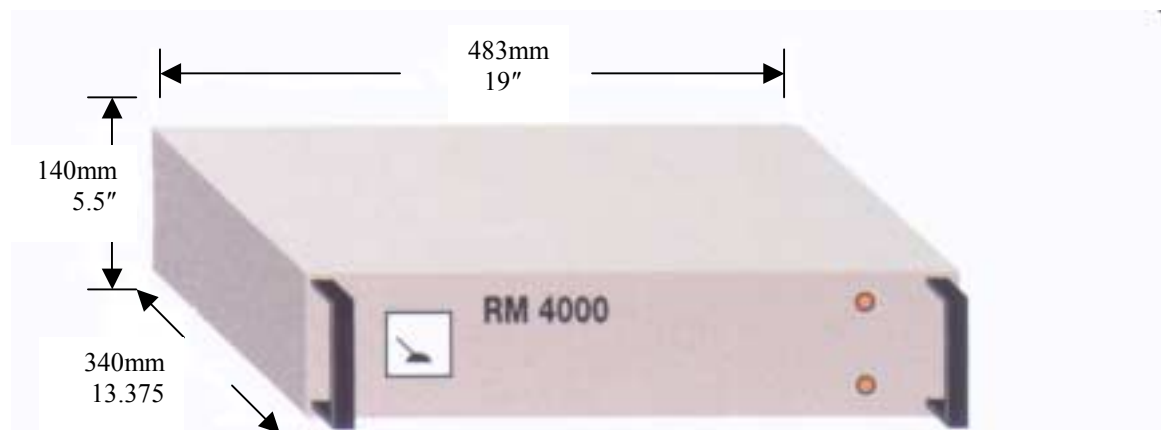
When dealing with long range radio monitoring systems, you need to know how the system performs- What is the maximum transmission distance? How many repeaters are required for the radio coverage of certain area? Is the received signal weak or strong?

The unique built-in Signal Strength Measurements feature allows the LARS™ system to give an immediate answer to all these questions, and many more!

Important Features:

- The RM4000™ decodes the Signal Strength Level of a transmission and display it on a PC computer via the RAN-MAN™ software.
- The signal level is measured by both the Central Station and by each Repeater.
- The RM4001™ provides Signal Strength Measurement and acts a LARS™ Repeater.
- The RAN-MAN™ -Repeater Display Software – displays and stores the signal level information from one central station and from up to 15 repeaters.
- The RAN-MAN™ software can generate reports from the internal database, helping to identify and solve technical problems related to signal levels.

**The unique tools to see the INVISIBLE- The Network Integrity
RM4000™, RM4001™ and RAN-MAN™ Software**



Description: The RM4000™ Unit measures and decodes the signal strength level of the transmission received from transmitters and transceivers. For transmission received directly in the Central Station, the RM4000™ measures the directly received signal levels. For units in which the Central Station receives the transmission via repeaters, the repeater measures the signal level and then sends it as a digital message to the Central Station. The RM4000™ then decodes the messages and displays the repeater information via the RAN-MAN™ software. All the data from the RM4000™ is transferred to a PC via a RS232 serial port. The RAN-MAN™ software displays and stores the signal strength information. The data can then be used for installation and maintenance of the LARS™ system. The RAN-MAN™ software allows you to print the data in various report formats, helping to analyze radio coverage problems and to evaluate each Repeater's range, improving the system's radio coverage. The RM4001™ also enables the Central Station to become a network repeater, thereby expanding the network coverage. The RM4000/4001™ includes a Signal Strength Meter, a Switching Power Supply and 7Ah Backup Battery, housed in 19" rack-mounted assembly.

Specifications

Model:	RM4000™/RM4001™
Dynamic Measurement Range	0.5uV to 2.0uV
Display Measurement Range	0.5uV to 2.0uV
Signal Strength Meter	0.5uV to 2.0uV
Operating Temperature	0°C to +50°C (32°F to 122°F)
Operating AC Voltage	85-265 VAC, 45 to 65 Hz
Current Consumption	0.2A (from the internal 12Vdc)
Backup Battery	Internal 12VDC 7Ah Sealed Lead Acid Battery
Backup Time	Approx. 35 hours with fully charged Internal Battery
Weight	5 kg. (11Lbs)
	RAN-MAN™
Display Capacity	8/16 Stations bar graphical display
PC Computer Minimal Requirements	PC Compatible, 386 Processor, 640 Kbytes RAM, Windows™ 40 Mbytes Hard Disk, screen support: monochrome, CGA, EGA, VGA, Super VGA

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