



4041



Relative Field Strength Measurement

The 4041 Field Strength Meter expands the capabilities of the Model 43, 43P and 4431 as well as other Bird wattmeters with 30 μ A meters by helping to optimize the radiated signal of any transmitter from 2-1000 MHz. The 4041 consists of a flexible receiving antenna, a high pass filter network and a variable gain RF amplifier/detector. The amplifier's DC output drives the 30 μ A meter to indicate the presence of an RF field at the receiving antenna. A GAIN control adjusts sensitivity of the device to various field intensities.

Since the 4041 responds to the field intensity at a particular location, it is easy to perform antenna-transmitter peaking simply by obtaining the maximum field intensity reading on the meter while optimizing antenna match. Typical sensitivity with the gain control at maximum is full scale meter deflection with one watt of radiated power @ 150 MHz from a 2-meter H.T. at 8 feet distance.

SPECIFICATIONS

Power Range	1 - 1000 MHz
Dynamic Range	30 dB min.
Sensitivity	Full Scale deflection at 8 ft. (2 1/2 m) from a 1 W source broadcasting at 150 MHz through a quarter wave antenna
Battery	(1) 9V Alkaline, NEDA No. 1604A
Battery Life	200 hours min.
Ambient Temp Range [°C (°F)]	0 to +50° (32 to 122°)
Nominal Size [inches (mm)]	4-3/8" x 2-1/4" x 1-15/16, without antenna (L x W x D)
Weight	111 x 57 x 49 mm