



# Coaxial Dynamics

A CDI INDUSTRIES, INC. COMPANY  
SPECIALISTS IN RF TEST EQUIPMENT & COMPONENTS

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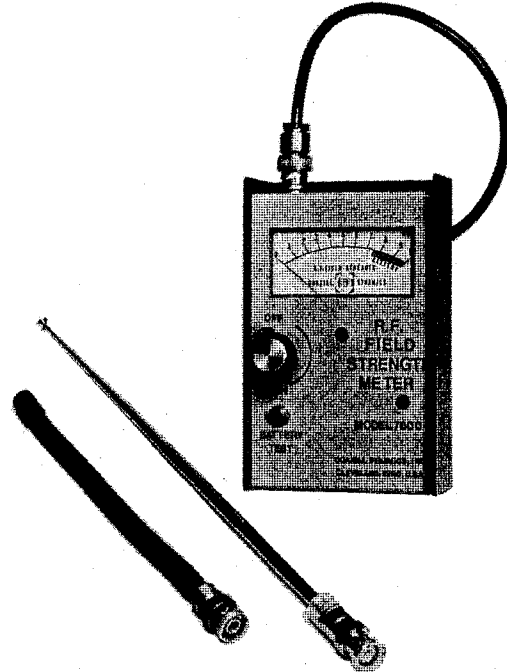
## MODEL 7600/7601 – FIELD STRENGTH METER

### FEATURES

- Superior sensitivity
- Low power consumption
- Rugged aluminum case
- Large meter scale, easy on the eyes
- Detachable antenna
- Broadband operation
- Adjustable gain control
- Internal battery test circuit

### INTRODUCTION

Model 7600/7601 is a portable, compact instrument which is used for measuring the relative strength of radiated fields. Potential applications would include adjusting mobile or base antennas and peaking or tuning transceivers. A female BNC connector allows the user to select either the flexible "rubber duck" type antenna (which is supplied with the unit) or an optional telescoping style that is also available. A third possibility would be to connect the unit directly to a base or mobile antenna.



### OPERATION

Model 7600/7601 is very easy to operate. The front panel controls are the on/off-gain switch, and the push button battery test switch (see outline drawing). In order to use the instrument, simply attach the desired antenna, turn the unit on, and adjust the gain control to a suitable level. The telescoping antenna (if purchased) may be adjusted from 3" to 19" in length. To maximize sensitivity, you may adjust the antenna to ¼ or ½ of a wavelength at the operating frequency. This is particularly helpful in the VHF and UHF bands. To determine the proper length, use the following formulas:

$$\text{For } \frac{1}{4} \text{ wavelength}$$

$$L = \frac{2808}{F}$$

inches      MHz

$$\text{For } \frac{1}{2} \text{ wavelength}$$

$$L = \frac{5516}{F}$$

inches      MHz

To check the condition of the battery, just push the "battery test" switch while the unit is off. When it becomes necessary to replace the battery, remove the four flat-head screws on the back of the unit and separate the case halves, then unplug and remove the old battery.

### SPECIFICATIONS

Frequency Range: 1-1000 MHz Model 7600 / 1-3000 MHz Model 7601  
 Sensitivity: A one-watt C.W. source from a unity gain antenna at 150 MHz will typically cause full scale deflection at a distance of 15 feet with the gain control set at maximum.  
 Weight: 8 oz maximum (including battery)  
 Battery: One 9 volt transistor battery  
 Normal Size: 3 1/8" x 5" x 2 1/8" (including switch)

### WARRANTY

As with all of our R.F instruments, we warrant Model 7600/7601 to be free of defects in material and workmanship for a period of two (2) years from the date of shipment (battery not included). See warranty card for complete details.