

**FIELD STRENGTH METER ME1/4**

The ME1/4 is a hand-held field strength meter designed to cover the frequency range 40 MHz to 850 MHz. The unit contains a moving-coil meter calibrated in volts/metre.

**General Specification**

Frequency 40 MHz to 850 MHz  
 Range  
 Indication moving-coil meter calibrated up to 500 volts/metre  
 Weight about 0.91 kg (2 lb.)

**Description**

Fig. 1 is a perspective view of the ME1/4 and Fig. 2 a circuit diagram. A short dipole aerial, complete with a short length of balanced twin feeder is made of copper foil and sandwiched between two sheets of transparent plastic. The detector components are on a small piece of printed wiring board

which is soldered to the feeder. The plastic mounting is fixed to a copper box which holds the moving-coil meter. The remaining components are mounted on the back of the moving-coil meter.

The part of the meter-scale calibrated above 200 volts/metre is coloured red. This is a warning that it is dangerous to remain in such a field.

**Maintenance**

If the meter is suspected to be in any way faulty it should be returned to Equipment Department for repair. No attempt should be made to change components as this may affect the calibration with potentially dangerous consequences.

LPB 2/70

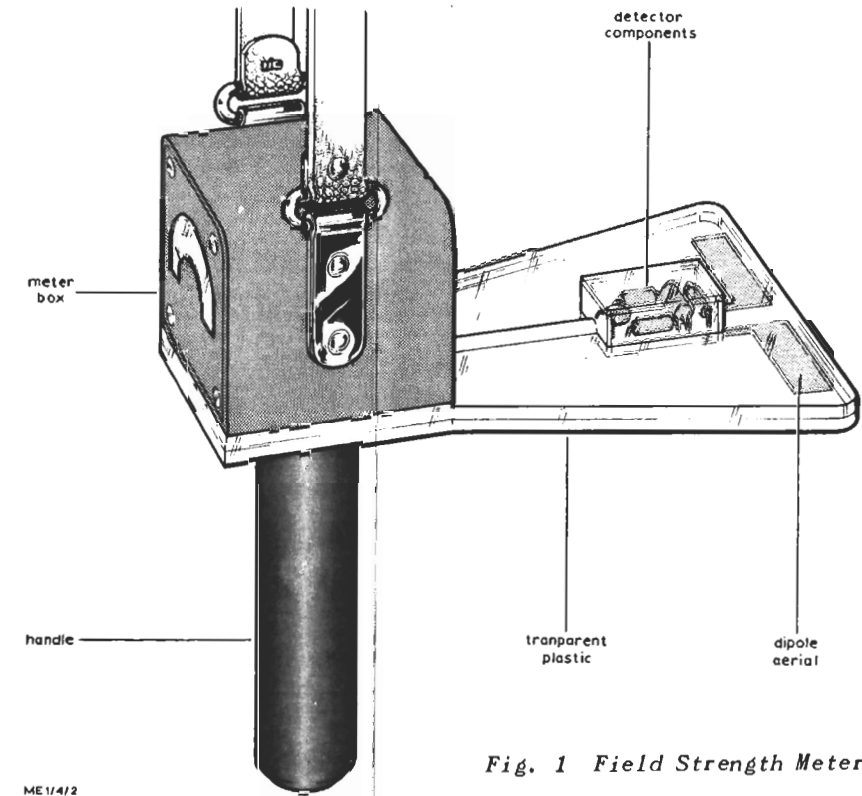


Fig. 1 Field Strength Meter ME1/4

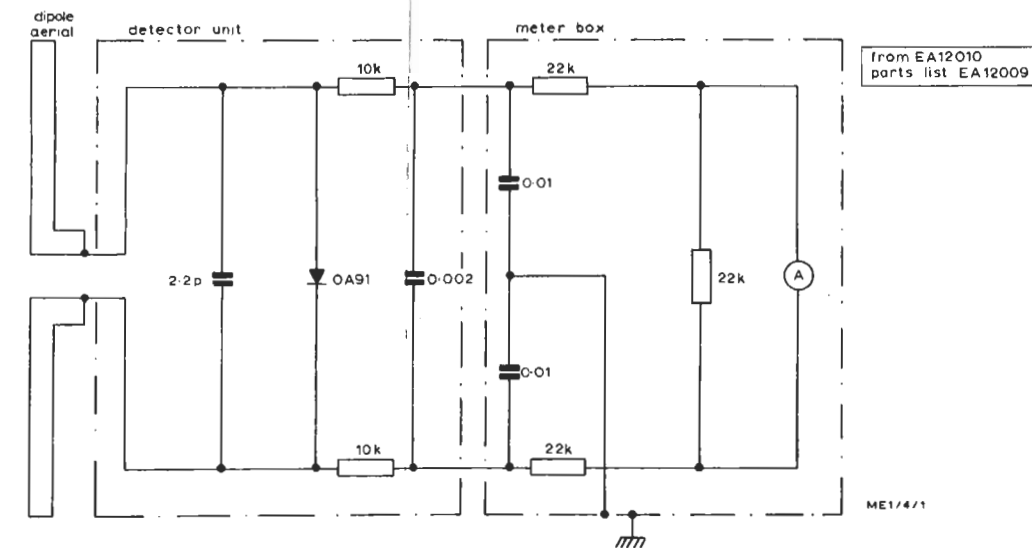


Fig. 2 Circuit of the ME1/4