



A multi-range A.C./D.C. meter specially designed for use under difficult conditions where a robust and portable instrument is required. An automatic cut-out mechanism affords protection when electrical overloads are inadvertently applied to the instrument, whilst an indicator appears through an aperture in the scale plate and shows that the overload mechanism has tripped. After the cause of the overload has been removed, a small control upon the instrument panel renders the meter again ready for use.

Eighteen ranges of direct readings are provided on a $3\frac{1}{4}$ -inch scale, range selection being by means of a single rotary switch.

HEAVY DUTY AVOMETER Electrical Measuring Instrument

The instrument is of the moving coil type, employing a transformer/rectifier system for A.C. measurements.

The meter is supplied with a pair of stout leads complete with interchangeable clips and prods. To extend the ranges of this meter, suitable external shunts and transformers are available, also a Resistance Range Extension Unit which will enable values to be read down to 0.01 ohm. (See page 23). A special version of this instrument is available, provided with voltage and current ranges chosen for their suitability in Railway Track Signalling Service. A Leather Carrying Case with shoulder strap can be supplied which protects the instrument, rendering it ready for immediate use whilst still lying in its case.

Weight (approx.): 5.5 lbs. (2.49 kgs.)
Size: $7\frac{1}{2}'' \times 5\frac{1}{2}'' \times 4''$
 $19.0 \times 13.9 \times 10.2$ cms.

VOLTAGE. A.C./D.C. 10, 25, 250, 1,000 volts.

CURRENT. A.C./D.C. 10 mA, 100 mA, 1 amp, 10 amps.

RESISTANCE. 0-500 ohms (Mid-scale 12.5 ohms). 0-50,000 ohms (Mid-scale 1,250 ohms).

ACCURACY: on D.C. 1 per cent. of full-scale value; on A.C. to B.S. first-grade.

SENSITIVITY. D.C. voltage ranges, 1,000 ohms per volt.
A.C. voltage ranges, except 10-volt range, 500 ohms per volt,
10-volt A.C. range, 200 ohms per volt.



THE AVO INDUSTRIAL TEST SET

MANY requests have been received from various branches of industry and from sea-going ships for a comprehensive, robust multi-range test set which will enable an inspecting engineer to be fully equipped to carry out tests upon various pieces of apparatus differing widely in current and voltage rating, and requiring an extension of the wide ranges already incorporated in the meter itself.

For this specific use the Industrial Test Set has been evolved and is supplied in a strong hardwood carrying case. The Test Set comprises a Model 40 Avometer with the following accessories: 1-4,800 V Multiplier, 1-120 Amp Shunt, 1-480

Amp Shunt, 1-60/240 Amp Transformer. With this combination the instrument can be used for measurements of A.C. and D.C. voltages of all values up to 4,800 V, for A.C. current up to 240 Amps and for D.C. current up to 480 Amps. The wide ranges of this instrument make it capable of dealing with practically all measurements likely to be encountered in normal industrial or marine use.