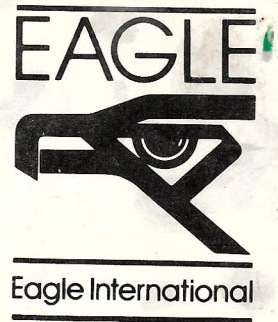


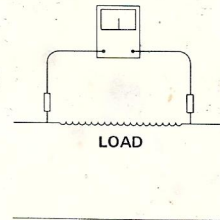
MM 20

20,000 Ohms-per-volt Multimeter



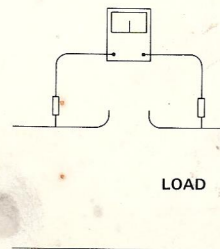
Voltage Measurement

- 1) Set slide switch located near top of range selector to V - Ω - A position.
- 2) Insert red test lead to + socket.
- 3) Insert black test lead to - com socket.
- 4) Select desired AC or DC voltage range. If voltage to be measured is unknown use higher ranges first. Select lower ranges if meter deflection is small.
- 5) For voltage measurement between 500 volts and 1,250 volts insert red probe to 1,250 socket on left of instrument for DC voltage, or 1,250 socket on right of instrument for AC voltage, set range selector to 500 volts DCV or ACV respectively.
- 6) Connect test prods to the source or load under test.



DC Current Measurement

- 1) Repeat steps 1, 2 and 3 as described for voltage measurement.
- 2) Select desired current range.
- 3) Connect test prods in series with load under test, red lead to + supply, and black lead to load.
- 4) For up to 10 amps measurement set range selector switch to 500 mA position, insert red test lead to socket marked 10 A.

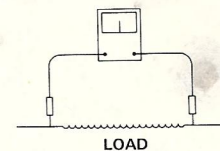


AC Current Measurement

- 1) Set slide switch located near top of range selector switch to ACA position.
- 2) Insert red test lead to + socket.
- 3) Insert black test lead to - com socket.
- 4) Select desired range. 5, 50 or 500 mA.
- 5) Connect test prods to load as described in step 3 of D.C. current measurement.
- 6) For up to 10 amps measurement. Set range selector switch to 500 mA position, insert red probe to socket marked 10 A.

Resistance Measurement

- 1) Repeat steps 1, 2 and 3 as described for voltage measurement.
- 2) Select desired range.
- 3) Short test prods together and adjust thumb wheel located on left side of instrument to attain 0 Ω reading on meter (if 0 Ω cannot be reached batteries may need replacing).
- 4) Connect prods to load under test.



Battery and Fuse Replacement

- 1) Remove screw from rear cabinet.
- 2) Remove rear cover.
- 3) Remove and replace batteries with 1 x PP3 and 2 x HP 7 type batteries.
- 4) If fuse has failed, replace with 0.5 A, 20 mm.
- 5) Replace rear cover and screw.

Specifications

DCV	0 - 0.25, 2.5, 12.5, 25, 125, 500, 1250 @ 20K O.P.V. 3%
ACV	0 - 5, 25, 125, 250, 500, 1250 @ 8K O.P.V. 3%
DCA	0 - 50 μ A, 5 mA, 50 mA, 500 mA, 10 A. 3%
ACA	0 - 5 mA, 50 mA, 500 mA, 10 A. 3%
Resistance	X1, 70 x 100 x 1000 Midscale 250 Ω 10%