

A.P. W5000 CAPACITY-INDUCTANCE BRIDGE
(Inter-Services Designation: Capacitance Meter)

SUMMARY OF DATA

PURPOSE

Used primarily for the measurement of capacitance. The instrument can be also used for the measurement of resistance and inductance. External standards must be used for the measurement of inductance.

DESCRIPTION

The instrument consists of a simple impedance-bridge with built in standard capacitors and resistors. Indication of balance is given by a "Magic Eye" electronic indicator.

PERFORMANCE

Capacitance Range:- 10 pF to 10 μ F.
Resistance Range:- 0.1 ohm to 10 megohms
Inductance Range:- depends on external standards used.

Accuracy on all built-in standards (except 1 megohm):
 ± 2 per cent.

Accuracy on 1 megohm range: ± 5 per cent.
Voltage applied to bridge: 2V r.m.s. approx.

POWER REQUIREMENTS
AND CONSUMPTION

Power Supply:- 100 to 150V and 200 to 250V
40 to 100 c/s A.C. single-phase supply.

Power Consumption:- 14 watts approx.

PHYSICAL DATA

Weight - 6 $\frac{1}{2}$ lb
Height - 7 in
Width - 5 $\frac{1}{2}$ in
Depth - 4 $\frac{1}{2}$ in

REMARKS

This is a proprietary instrument and has not been designed to Inter-Service Specifications.

The instrument is supplied as part of Testing Outfits TKA-TKH.

Maintenance should normally be restricted to valve replacements.

OTHER SERVICE AND COMMERCIAL DESIGNATIONS

Mullard Electronic Instrument Type No. G.M.4140/1.



A.P. W5000 CAPACITANCE-INDUCTANCE
BRIDGE

HANDBOOK

B.R.1771(1)

ESTABLISHMENT LIST

E1015

PRODUCTION SPECIFICATION

13433