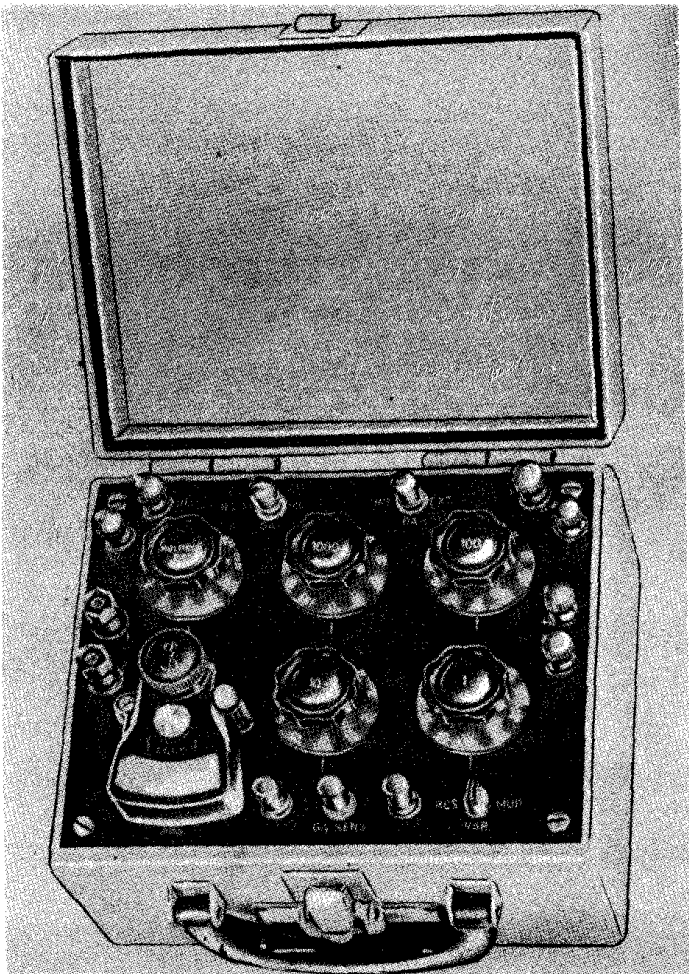


April 1958

RESISTANCE BRIDGE**ZM-4/U, -4B/U***Resistance Bridge ZM-4/U, -4B/U***FUNCTIONAL DESCRIPTION**

The ZM-4/U and ZM-4B/U are portable equipments designed to measure resistances in locating faults which occur in conductors used for communications systems, and on those used for power transmission. It can also be used to measure any fixed resistors having values between approximately 0.1 ohm and 10 megohms.

It is self-contained in that it has a galvanometer mounted on the top plate, and three dry cells within the compartment case to supply the required power. Provisions are made to use a separately mounted galvanometer and external dry cells when the corresponding internal items are disconnected.

The ZM-4B/U is similar to ZM-4/U except that it has improved and relocated panel controls and connectors, and is enclosed in

an aluminum case.

No field changes in effect at time of preparation (6 January 1958).

ELECTRICAL AND MECHANICAL CHARACTERISTICS

RANGE: 1 ohm to 10 meg.

ACCURACY: $\pm 0.15\%$ ± 0.01 ohm.

PRESENTATION AND CONTROLS: Calibrated dials are used to select individual resistors and decade multiplier resistors. A null is indicated on the self-contained galvanometer. Binding posts permit use of an external null indicator and external batteries, provided the internal item is disconnected.

POWER SOURCE REQUIRED: 4.5 v DC internal; 200 v DC max external.

MANUFACTURER'S OR CONTRACTOR'S DATA

Shallcross Mfg, Co, Collingdale, Pa.
Contract NObsr-52316.

TUBE AND/OR CRYSTAL COMPLEMENT

No Electron Tubes or Crystals.

REFERENCE DATA AND LITERATURE

NAVSHIPS 91073(A): Technical Manual for Resistance Bridge ZM-4/U.

NAVSHIPS 91750: Technical Manual for Resistance Bridge ZM-4B/U.

TYPE CLASSIFICATION

DESIGN COGNIZANCE BUSHIPS

PROCUREMENT COGNIZANCE

STOCK NO.

R.D.B. IDENT. NO.

Test-Impedance and Standing Wave Ratio

ZM-4/U,-4B/U

RESISTANCE BRIDGE

April 1958

SHIPPING DATA

NUMBER OF BOXES	CONTENTS AND IDENTIFICATION	VOLUME (Cu.Ft.)	OVERALL DIMENSIONS (inches)	WEIGHT PACKED (lbs.)
1	Resistance Bridge ZM-4/U or ZM-4B/U	1.7	10 x 16 x 18	44

EQUIPMENT SUPPLIED DATA

QUANTITY PER EQUIPT	NAME AND NOMENCLATURE	OVERALL DIMENSIONS (inches)	WEIGHT (lbs.)
1	Resistance Bridge ZM-4/U or ZM-4B/U	5-5/8 x 7-1/2 x 9	8
2	Technical Manuals NAVSHIPS-91073A or NAVSHIPS 91750		
3	Flashlight Cells BA-30	1-5/16 dia x 2-5/16	1