

## SECTION 4

### INSTRUCTION FOR CATALOG NO. 247150 DIGITAL LOW RESISTANCE OHMMETER

#### GENERAL DESCRIPTION

The BIDDLE Catalog No. 247150 is a highly accurate, portable, low resistance tester with digital readout. The instrument is housed in a rugged aluminum case and has been designed for both field and laboratory use. The lid is hinged and removable. The power and test leads are carried separately and are connected to the instrument by mil-spec connectors. To facilitate handling once the lid has been opened, or removed, two handles are located on the side of the case.

The front panel controls were designed to simplify use of the instrument so that unskilled personnel can use it. A light-emitting diode type display meter is located in the center of the front panel and is internally scaled to provide readings directly in microhms or milliohms. High quality components have been used throughout to guarantee long, maintenance-free operation in an industrial environment.

The Cat. No. 247150 operates on a ripple-free dc current of 10 amps and is designed to measure everything from purely resistive loads to highly inductive loads within the measuring range of the instrument.

The test current is derived from either a continuous 10 amp power supply or a rechargeable sealed lead acid battery capable of supplying in excess of 100 readings of 15 or less seconds in time duration.

#### SPECIFICATIONS

- . Input Power: Less than 2 amp @ 120 VAC
- . Battery (Internal): 8 V - 2 Lead acid rechargeable
- . Accuracy: 1% of reading - 1 count (20<sup>0</sup>-130<sup>0</sup> F)
- . Ranges: 2000 Microhm; 20.00 milliohm;  
200.0 milliohm; 2.000 ohm; 20.00 ohm.
- . Test Current: 10 amps
- . Test Modes: Momentary or continuous
- . Temperature Range: 20<sup>0</sup>F to 130<sup>0</sup>F (-6.6<sup>0</sup>C to 54<sup>0</sup>C)
- . Size: 16" x 10" x 12" (406 x 254 x 305 mm)
- . Weight: 25 lbs. (11.4 kg)
- . Test Leads: 20 ft. standard (6 m)
- . High drive capability allows instrument to be operated with long test leads.