

# TYPE 130

## DIRECT-READING L-C METER

Resistance loading compensation is optimized for 117-volts RMS operation. The following loads will not appreciably alter the measurement indication:

Capacitance: as low as 100-k $\Omega$  shunt.

Inductance: as low as 20-k $\Omega$  shunt, up to 10- $\Omega$  series.

Correction tables in instruction manual indicate needed corrections for other values of load resistance. Actual corrections determined for each instrument at time of each recalibration.

### RANGE SELECTION

Microhenrys—0 to 3, 10, 30, 100, and 300.

Picofarads—0 to 3, 10, 30, 100, and 300.

### ACCURACY

Meter indicates within 3% of full scale. Full scale accuracy of any one range can be improved by special calibration at the time measurement is made.

### POWER REQUIREMENTS

40 watts, 50 to 60 Hz. Instrument factory wired for 105 V-to-125 V (117 V nominal) operation. Transformer taps permit operation at 210 V to 250 V (234 V nominal). Instrument can be ordered factory wired for 210 V to 250 V operation.

### DIMENSIONS AND WEIGHTS

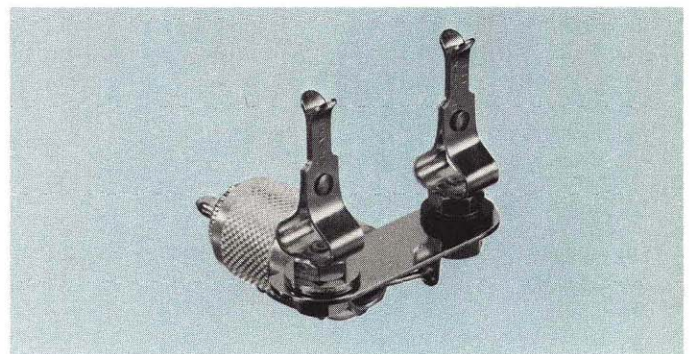
Height	10 <sup>5</sup> / <sub>8</sub> in	27.0 cm
Width	7 in	17.8 cm
Depth	11 <sup>1</sup> / <sub>8</sub> in	28.3 cm
Net weight	9 lb	4.1 kg
Domestic shipping weight	≈14 lb	≈ 6.4 kg
Export-packed weight	≈21 lb	≈ 9.5 kg

### INCLUDED STANDARD ACCESSORIES

P93C Probe (010-0003-00); black output lead (012-0014-00); red output lead (012-0015-00); 3-conductor power cord (161-0010-03); 3 to 2-wire adapter (103-0013-00); two instruction manuals (070-0231-01).

**TYPE 130 DIRECT-READING L-C METER . . . . . \$250**

### OPTIONAL ACCESSORY



### PRODUCTION TEST FIXTURE

Reduces production time required to sort and test capacitors and inductors, order 013-0001-00 . . . . . \$6.50

U.S. Sales Prices FOB Beaverton, Oregon  
Please refer to Terms and Shipment, General Information page.



- **MEASURES UP TO 300  $\mu$ H OR 300 pF**
- **EASY-TO-READ 4 1/2-INCH METER**
- **CONVENIENT OPERATION**

The Type 130 L-C Meter is a direct-reading reactance meter that measures small reactances in a series mode at a frequency between 125 kHz and 140 kHz. Meter indicates inductance up to 300  $\mu$ H and capacitance up to 300 pF. The unknown inductor or capacitor is part of a resonant circuit whose frequency is compared to a 140-kHz reference oscillator. Meter indicates the two oscillator's frequency difference but is calibrated directly in  $\mu$ H and pF. Measurement of very small reactances is possible by using special measurement procedures that are described in the instrument instruction manual.

The Type 130 is particularly useful for measuring small capacitances in the presence of environmental strays. A front-panel Guard Voltage output connector provides in-phase drive to the environmental capacitance to eliminate strays from the measurement. Thus it is possible to measure vacuum tube interelectrode capacitances. Up to 300 pF environmental capacitance around an unknown capacitor can be guarded if the guard terminal loading is not excessive. Loading limits are outlined in the instruction manual.