

### 1.3 SPECIFICATIONS

The detailed specifications for this model are given in Table I below.

TABLE I - SPECIFICATIONS

SPECIFICATIONS:	25°C ±5°C, 6 mos., 50 or 60 Hz, ±2 Hz.
BRIDGE:	Transformer ratio bridge type circuit with hot guard.
BRIDGE OUTPUT TEST VOLTAGE:	Internally generated.
	28 Vnom/25 mA max, 100 Hz for 60 Hz systems.
	28 Vnom/25 mA max, 80 Hz for 50 Hz systems.
	Maximum output voltage: 30V rms.

#### CAPACITANCE MEASUREMENTS:

<u>Multiplier</u>	<u>Resolution</u>	<u>Maximum Range</u>
20 pF	0.02 pF	240 pF
50 pF	0.05 pF	600 pF
100 pF	0.1 pF	1200 pF
200 pF	0.2 pF	2400 pF
500 pF	0.5 pF	6000 pF
0.001 µF	1.0 pF	0.012 µF (12000 pF)
0.002 µF	2.0 pF	0.024 µF (24000 pF)
0.005 µF	5.0 pF	0.060 µF (60000 pF)
0.01 µF	10 pF	0.12 µF
0.05 µF	50 pF	0.60 µF
0.1µF	100 pF	1.2 µF

Accuracy: ±0.25%, Reading ±4 pF.

#### DISSIPATION FACTOR:

Range (D.F.)	Resolution (D.F.)
0 - 1%	0.001
0 - 10%	0.01
10 - 20%	0.01
20 - 30%	

Accuracy: ±2%, Reading ±1% F.S. on all ranges.

## OPERATION:

### Environmental:

Operating:	0°C to 50°C; R.H. to 80%
Storage:	-40°C to +65°C.
Temperature Coefficients:	±0.02% of applicable accuracy spec. per °C of both capacitance and dissipation factor.

### PHYSICAL:

Instrument and accessories supplied with portable foam lined carrying case. Case has hinged opening from above with a lockable latch.

#### Sizes:

Model CB100	290W x 240H x 175D mm (11.5W x 9.5H x 7D in)
Transport Case	430W x 375H x 330D mm (17W x 14.7H x 13D in)

#### Weight:

Instrument	5 kg (11 lbs)
Shipping	11.8 kg (24 lbs)

## 1.4 ACCESSORIES FURNISHED

Each instrument is supplied complete with:

- two color coded leads-coaxial cable-10m long.
- one color coded ground lead cable-10m long.
- three wire line input cord.
- one instruction-service manual.
- one transport case.

## 1.5 ACCESSORIES AVAILABLE

810132	Range Extension Adaptor
810133	Calibrator
810200	Oil Test Cell
810210	Oil Test Cell Heater