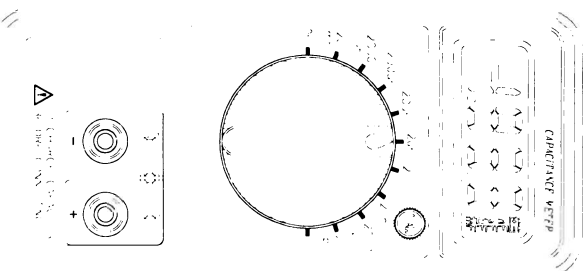


OPERATING INSTRUCTIONS

MODEL:15

DIGITAL MULTIMETER




SPECIFICATIONS

Display: 3½ digit liquid crystal display (LCD) with a maximum reading of 1999.

Polarity: Automatic, positive implied, negative polarity indication.

Overrange: (1) or (-1) is displayed.

Zero: Automatic.

Low battery indication: the "  " is displayed when the battery voltage drops below the operating level.

Measurement rate: 2 times per second, nominal.

Operating Environment: 0°C to 50°C at < 70% relative humidity.

Storage Temperature: -20°C to 60°C, 0 to 80% R.H. with battery removed from meter

Accuracy: Stated accuracy at 23°C ± 5°C, < 75% relative humidity.

Power: single standard 9-volt battery. NEDA 1604, JIS 006P, IEC 6F22.

Battery life: 300 hours typical with carbon-zinc.

Dimensions: 151mm (H) x 70mm (W) x 38mm (D).

Weight: Approx. 7 oz. (200g) including battery.

Accessories: One pair test leads, 9V battery (installed), one spare fuse (installed) and Operating Instructions.

Range	Resolution	Accuracy	Test Frequency
200pF	0.1pF	±(0.5%/rdg+1dgt+0.5pF)	820Hz
2000pF	1pF	±(0.5%/rdg+1dgt)	
20nF	10pF		
200nF	100pF	±(0.5%/rdg+1dgt)	82Hz
2µF	1nF		
20µF	10nF		
200µF	100nF	±(2.0%/rdg+1dgt)	8.2Hz
2000µF	1µF		
20mF	10µF		

Test voltage: < 3.5V

Input protection: 0.1A/250V fast acting fuse

Zero adjust limited: ±20pF approx.


OPERATION

WARNING

To avoid electrical hazards, discharge the capacitor before measuring.

1. For capacitance measurement less than 200nF, use the "0-ADJ" knob can be subtract the stray capacitance.
2. Set the range switch to the desired range.
3. Never apply an external voltage to the input terminals. Damage to the meter may result.
4. Observe polarity when measuring polarized capacitors.
5. Insert the capacitor leads into the receptacle socket or directly connect the test clip to the capacitor leads as required.
6. Read the capacitance direct from the display.

Battery Replacement

Power is supplied by a 9 volt "transistor" battery. (NEDA 1604, IEC 6F22). The "  " appears on the LCD display when replacement is needed. To replace the battery, remove the two screws from the back of the meter and lift off the front case. Remove the battery from battery contacts.

Fuse Replacement

If no capacitance measurements are possible, check for a blown overload protection fuse. For access to fuses, remove the two screws from the back of the meter and lift off the front case. Replace Fuse only with the original type 0.1A/250V fast acting fuse.



CHY FIREMATE CO.,LTD.

TEL:(06)2794811 FAX(06)2700227

NO.3 SHENG-LI STREET HSIN TIEN VILLAGE,JEN-TE HSIANG, TAINAN HSIEH,TAIWAN,ROC

15 CALIBRATION PROCEDURE

The procedure should be performed at an ambient temperature of $25\text{ }^{\circ}\text{C} \pm 2\text{ }^{\circ}\text{C}$, and at a relative humidity of less than 75 % .

A. Capacitance calibration

- Set the range to the “200NF” position, and using 100NF capacitor to adjust R40 until the display reads 100NF .

