

# Capacitance Meter

Part No. 01MY6013

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## 1. GENERAL

### 1.1 INTRODUCTION

This Digital Capacitance Meter gives a direct reading of capacitance on a 3 1/2 digits LCD display. Nine ranges give precision readings from 0.1pF to 20mF, which includes virtually all capacitors used in electronic engineering laboratory, production, service shops and schools. Its battery operation, light weight, and small size make it a truly portable instrument.

### 1.2 FEATURES

- \* 21mm LCD display provided. MAX indication 1999.
- \* 9 Ranges form 200pF to 20mF.
- \* High accuracy in measuring.
- \* External knob adjustment of the zero value of the display, approx  $\pm 20$ pf.
- \* Dual — Slope integration A/D converter.
- \* Overload indication of " 1 ".

- \* Safety designed test probe.
- \* Size: 31.5mm × 91mm × 189mm ( H × W × L).
- \* Weight: 240g ( including battery ).

## 2.. SPECIFICATIONS

Accuracy is specified for a period of one year after calibration and at 18°C to 28°C (64°F to 82°F) with relative humidity to 80%.

### 2.1 GENERAL

POWER SUPPLY	9V battery NEDA 1604 or 6F22 006P
LOW BATTERY INDICATION	"  " appears on the display
FUSE PROTECTION	200mA/250V
EXCITATION VOLTAGE	2.8V peak,MAX
OPERATING TEMPERATURE	0°C to 40°C ( 32°F to 104°F)
STORAGE TEMPERATURE	- 10°C to 50°C ( 14°F to 122°F)

### 2.2 ELECTRICAL SPECIFICATIONS

Range	Resolution	Accuracy	Test Frequency
200pF	0.1pF	± 0.5% of full scale ± 1 digit	800Hz
2nF	1pF	± 0.5% of full scale ± 1 digit	800Hz
20nF	10pF	± 0.5% of full scale ± 1 digit	800Hz
200nF	100pF	± 0.5% of full scale ± 1 digit	800Hz
2μF	1000pF	± 0.5% of full scale ± 1 digit	800Hz
20μF	0.01μF	± 0.5% of full scale ± 1 digit	80Hz
200μF	0.1μF	± 0.5% of full scale ± 1 digit	8Hz
2000μF	1μF	± 1.0% of full scale ± 1 digit	8Hz
20mF	10μF	± 2.0% of full scale ± 2 digits	8Hz