



Measurements

- ✓ AC, DC and AC+DC Voltage & Current measurement
- ✓ 10Amp ACA/DCA (M 2540)
- ✓ 0.03% DCV accuracy (M 2542)
- ✓ 0.015% DCV accuracy (M 2540)
- ✓ Resistance & Capacitance measurement (M 2540)
- ✓ Continuity & Diode Test (M 2540)
- ✓ Frequency measurement
- ✓ Temperature measurement
- ✓ dBm/dB measurement

Features

- ✓ True RMS on AC, AC+DC, HFR AC
- ✓ 4,000/40,000 count extra large digital display (MH 2542)
- ✓ 10,000/1,00,000 count extra large digital display (MH 2540)
- ✓ 43 Analog segments analog bar graph
- ✓ Auto Backlit, Dual display
- ✓ Auto AC, DC and AC+DC on Voltage & Current mode with Frequency indication
- ✓ Auto selection on Ohm, Diode or Continuity
- ✓ 20000 records data logging capacity
- ✓ Automatic power shut off with selectable time
- ✓ Beep Guard with Auto fuse detection
- ✓ High Frequency Rejection (HFR)
- ✓ Self Calibration
- ✓ On-Screen-Menu selection
- ✓ Store/Recall 1000 memories
- ✓ Navigator Key Drive
- ✓ Optical interface
- ✓ Min/Max/Avg Function
- ✓ Relative/% Function
- ✓ Auto Hold/Peak Hold Function
- ✓ Duty Cycle
- ✓ Log rate setting

General Specifications

Specifications	M 2540/M 2542
Sampling Rate	3times/sec
Overload Indication	"OL" or "-OL"
Low Battery Indication	
Auto Power Off	Approx. 1 to 60 minutes
Operating Temperature	10°C ~ 50°C, ≤80% RH
Storage Temperature	-20°C ~ 60°C
Temperature Coefficient	0.15(Spec. Acc)/°C, <18°C or>28°C
Power Requirement	AAS ize 1.5V x 4 batteries (NEDA 15A or IEC LR6)
Battery Life	100 In hours (Alkaline battery)
Size	95mm(W) x 207mm (L) x 52mm(H) (with holster)
Weight	630 In grams (with battery)
Accessories	Test Leads, Alligator Clips, Temp. daptor, Bead probe, Protective Holster, USB cable, Software, Magnetic Hanging Kit, Alkaline batteries (installed) and manual
Safety Standard	IEC 61010 and designed to meet UL61010 specifications - CAT IV 600V/CAT III 1000V

Specifications: (All at 23°C±5°C, ≤ 80% R.H.)

Parameter	Specification		M 2540	M 2542
DCV	Ranges	100mV to 1000V	✓	
		40mV to 1000V		✓
	Resolution	1μV	✓	✓
	Basic Accuracy	±(0.015%+20d)	✓	
±(0.03%+20d)			✓	
ACV	Ranges	100mV to 1000V	✓	
		40mV to 1000V		✓
	Resolution	1μV	✓	✓
	Basic Accuracy	±(0.4%+50d)	✓	
		±(0.7%+50d)		✓
Bandwidth	40Hz to 100kHz	✓	✓	
Overload Protection	1000Vrms	✓	✓	
(AC+DC)V	Ranges & Resolution	Same as ACV, except Accuracy	✓	✓
DCA	Ranges	10mA to 10A	✓	
		40mA to 10A		✓
	Resolution	0.1μA	✓	
		1μA		✓
Basic Accuracy	±(0.1%+40d)	✓		
	±(0.2%+40d)		✓	
Input Protection	440mA/1000V & 11A/1000V DC/AC high energy fuse	✓	✓	
ACA	Ranges	10mA to 10A	✓	
		40mA to 10A		✓
	Resolution	0.1μA	✓	
		1μA		✓
	Basic Accuracy	±(0.7%+80d)	✓	
±(0.8%+80d)			✓	
Bandwidth	40Hz to 1kHz	✓	✓	
Input Protection	440mA/1000V & 11A/1000V DC/AC high energy fuse	✓	✓	
(AC+DC)A	Ranges & Resolution	Same as ACA, except Accuracy	✓	✓
Ohm	Ranges	1000Ω to 40MΩ	✓	
		400Ω to 40MΩ		✓
	Resolution	0.01Ω	✓	✓
	Basic Accuracy	±(0.025%+30d)	✓	
±(0.2%+30d)			✓	
Continuity	2kHz Tone Buzzer	<50Ω	✓	✓
Diode Test	Open Circuit Voltage	±3V	✓	✓
Frequency Counter	Ranges	40Hz to 4MHz	✓	✓
	Resolution	0.001Hz	✓	✓
	Basic Accuracy	±(0.002%+10d)	✓	✓
Duty Factor	Ranges	20% to 80%	✓	✓
	Resolution	0.1%	✓	✓
	Basic Accuracy	±(0.1%+10d) @ 5Hz to 10kHz, 5Vp-p	✓	✓
Capacitance	Ranges	4nF to 40mF	✓	✓
	Resolution	1pF	✓	✓
	Basic Accuracy	±(0.8%+2d)	✓	
±(0.9%+2d)			✓	
°C / °F	Ranges	-200°C to 1200°C	✓	✓
	Resolution	0.1°C	✓	✓
	Basic Accuracy	±(1%+1°C)	✓	✓
	Overload Protection	1000Vrms	✓	✓