



## MDM-8145A/MDM-8146A Benchtop Digital Multimeter

- 4½ digits, 22000 counts.
- Dual parameter display: display two parameters of the same input signal.
- Measurement rate: FAST (7 times / sec), MID (5 times / sec), SLOW (2 times / sec).

- Trigger mode: Automatic trigger, single trigger, external trigger(optional).
- Range switching mode: Auto / Manual.
- 12 basic measurement functions: AC and DC voltage, AC and DC current, two-wire / four-wire resistance, period / frequency, diode, on-off test, capacitance, duty cycle.
- DCV basic accuracy: 0.05%.
- Mathematical functions: MX+B/MAX/MIN/dB/dBm/Rel/Comp Hi/Comp Low/ Statistics.
- Additional functions: Data hold, data record, data readback.
- keys can be locked.
- Open calibration function.
- Square wave output.(Optional.)
- Provide system settings, can configure the language(Chinese / English), buzzer, screen brightness, interface display style.
- Temperature: Thermocouple: K/N/R/S/T/B/E/J/WRe325/WRe526; RTD: PT100 / PT50 / Cu100 / Cu50.
- Communication Interface: Standard: USB Device; Optional: RS232, USB Host, GPIB, LAN, WIFI, Bluetooth.
- Support SCPI protocol.

Mode	MDM8145A					
Display digits	22000(4½)					
Maximum measurement speed	7 times / sec					
Function	DC voltage	DC current	AC voltage	AC current		
Accuracy	$\pm (0.05\%+3)$	$\pm (0.35\%+10)$	$\pm (0.8\% + 80)$	$\pm (0.8\% + 80)$		
Range	10uV~1000V	10nA~10A	10uV~750V	10nA~10A		
Highest resolution	10uV	10nA	10uV	10nA		
			40Hz~100kHz	40Hz~10kHz		
Function	Resistance	Capacitance	Frequence	Period		
Accuracy	±(0.1%+6)	±(3.5%+30)	±(0.2%+10)	±(0.2%+10)		
Range	10mΩ~200MΩ	1pF~10mF	1Hz~20MHz	50ns~500ms		
Highest resolution	10mΩ	1pF	0.001Hz	0.01ns		
Others						
Mathematical functions	MX+B/MAX/MIN/dB/dBm/Rel/Comp Hi/Comp Low/Hold/Statistics					
Resistance measurement	Support 2-wire, 4-wire in two ways.					
Continuity test	When the resistance is less than 30 ohms, the buzzer sounds.					
Diode test	Measurable range: 0∼2V					
AC+DC measurement	Support.					
Trigger mode	Standard: automatic trigger, single trigger; Optional: external trigger.					

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Duty cycle measurement	$5.0\% \sim 95.0\%$ . (the error is within 10 words.)					
Square wave output	Frequence: 1Hz~100kHz, amplitude: 3V.(Optional.)					
Limit test	Support.					
Calibration	Support.					
Temperature	Thermocouple: K/N/R/S/T/B/E/J/WRe325/WRe526; RTD: PT100/PT50/Cu100/ Cu50.					
Communication Interface	Standard: USB Device; Optional: USB Host, RS232, GPIB, LAN, WIFI, Bluetooth.					
Additional functions	Data hold, data record, data readback.					
Mode	MDM8146					
Display digits	22000(4½)					
Maximum measurement speed	7 times / sec					
Function	DC voltage	DC current	AC voltage	AC current		
Accuracy	$\pm (0.02\%+3)$	$\pm (0.1\%+3)$	$\pm (0.2\%+20)$	$\pm (0.3\%+3)$		
Range	10uV~1100V	10nA~12A	10uV~800V	10nA~12A		
Highest resolution	10uV	10nA	10uV	10nA		
	-	-	40Hz~100kHz	40Hz~10kHz		
Function	Resistance	Capacitance	Frequence	Period		
Accuracy	$\pm (0.05\%+5)$	$\pm (2\%+5)$	$\pm (0.05\%+3)$	$\pm (0.05\% + 3)$		
Range	10mΩ~1GΩ	1pF~10mF	1Hz~20MHz	50ns~500ms		
Highest resolution	10mΩ	1pF	0.001Hz	0.01ns		
Others						
Mathematical functions	MX+B/MAX/MIN/dB/dBm/Rel/Comp Hi/Comp Low/Hold/Statistics					
Resistance measurement	Support 2-wire, 4-wire in two ways.					
Continuity test	When the resistance is less than 30 ohms, the buzzer sounds.					
Diode test	Measurable range: 0∼2V					
AC+DC measurement	Support.					
Trigger mode	Standard: automatic trigger, single trigger; Optional: external trigger.					
Duty cycle measurement	$5.0\% \sim 95.0\%$ . (the error is within 10 words.)					
Square wave output	Frequence: 1Hz~100kHz, amplitude: 3V.(Optional.)					
Limit test	Support.					
Calibration	Support.					
Graphic display	Trend chart, Histogram, Bar Meter.					
Customized sensor	Users can customize the relationship curve, through the USB communication port or U disk to download, support up to 20 kinds.					
Temperature	Thermocouple: K/N/R/S/T/B/E/J/WRe325/WRe526; RTD: PT100/PT50/Cu100/ Cu50.					
Communication Interface	Standard: USB Device; Optional: USB Host, RS232, GPIB, LAN, WIFI, Bluetooth.					
Additional functions	Data hold, data record	Data hold, data record, data readback.				