

Digital 120,000-Digit Benchtop Multimeter

- The DMM-8055 is a versatile, cost-effective meter for measuring voltage, current, resistance, and capacitance, offering a top count of 120,000, a maximum sampling rate of 200 times/s, and 0.012% accuracy in DC voltage measurement, making it an ideal choice for users.
- The device features a high-brightness VFD Dual-display, enhancing test efficiency and clarity by simultaneously displaying ACV/DCV, DCI/ACI, and frequency.
- The DMM-8055 includes USB connectivity and comes with software for PC communication, data analysis, and system building. It supports SCPI commands for compatibility with various communication software. The Handler interface also supports external triggers and provides sorting signals for production line applications.

Model:DMM-8055



- Display capability of 120,000 counts
- Features a high-brightness, dual-display VFD
- True-rms testing for both AC voltage and current
- Supports multiple mathematical operations: DCV, ACV, DCI, ACI, AC+DC, Ω , CAP, Temperature, Frequency, Diode, Continuity, and dB/dBm
- Additional parameters related to current testing are shown on the secondary display
- Maximum ADC sampling rate of 200 times per second
- DC voltage testing accuracy up to 0.012%, with a resolution as fine as 1 μ V
- Relative mode (REL) available to cancel out residual readings
- Calibration possible without disassembling the unit
- Includes a limit function for rapid sorting
- Data statistics capabilities include tracking of Maximum, Minimum, Average values, and total count of data points
- Equipped with a standard USB interface for seamless system communications
- Standard Handler interface for integration with production lines, facilitating external triggers and sorting signals

Product Specifications

Category	Feature	Specification

Test Functions	Parameters	DCV, ACV, DCI, ACI, DCR, CP, FREQ, CONT, DIODE, TEMP
	Mathematics	%, dB, dBm, REL, mX+b
	Range	Auto, Manual
	Display	High brightness VFD dual-display
	Trigger Mode	INT/BUS/EXIT
	Reading Hold	Ensures stable readings for each data block
Limitation & Calibration	Judgement & Mode	HI, IN, LO with ALARM for HI/LO; Auto, Manual
External & Communication Interfaces	Triggers & Protocols	Handler for external trigger and output sorting; SCPI for RS232 and USB
Performance & Reading Rates	Uncertainty & Rates	±(% of reading+% of full scale); Fast: 80, Slow: 15 readings/s
DC Voltage (DCV)	Range & Uncertainty	100mV-1000V; 1μV min. res.; 0.012%+0.008% max. uncertainty
DC Current (DCI)	Range & Uncertainty	1mA-10A; 10nA-100μA min. res.; 0.05%-0.20% max. uncertainty

AC Voltage (ACV)	Range, Freq. & Uncertainty	100mV-750V; 20Hz-100kHz; 1 μ V min. res.; 1.00%-3.00% max. uncertainty
AC Current (ACI)	Range, Freq. & Uncertainty	1mA-10A; 20Hz-10kHz; 10nA min. res.; 1.0%-2.0% max. uncertainty
Resistance	Range & Uncertainty	100 Ω -100M Ω ; 10 $\mu\Omega$ -1k Ω min. res.; 0.05%-2.00% max. uncertainty
Capacitance	Range & Uncertainty	1nF-10000 μ F; 1pF-1 μ F min. res.; 1.0%-2.0% max. uncertainty
Frequency	Range, Sensitivity & Uncertainty	1Hz-1MHz; 40mV rms; 10 μ Hz min. res.; 0.005% max. uncertainty
Temperature	Range, Probe & Uncertainty	-10 $^{\circ}$ C-100 $^{\circ}$ C; PT500; 0.1 $^{\circ}$ C min. res.; Probe accuracy \pm 0.2 $^{\circ}$ C