

# Model MS8050

## HIGH ACCURACY BENCH MODEL MULTIMETER

Part No. 01DMMS8050

### FEATURES

MS8050 is a bench model DMM product that has high accuracy and high stability. Containing a 24 bits A/D converter and being controlled by a single-chip computer, it can operate for several ten measurement functions. It's five digits can count up to 53000. Not only DC, AC RMS, but DC and AC mixture signal's RMS can be measured for 1000V or 10A. The resolution of DCV is 1 $\mu$ V and the frequency band of voltage or current is about 20kHz, which is sufficient for most electric measurements. MS8050 is also a frequency counter, which can test pulse frequency above 2MHz or linear frequency above 200kHz, including the frequency of current. The measurements of 50M ohm resistor, 5000 $\mu$ F capacitor, and maximum/minimum value, average value, relative value, power DB, diode, continuity are often useful for engineers. It has a memory function up to 30 full screen for saving test data, has a color fluorescent double digital display screen.



MS8050 is controlled and calibrated by software, non adjustable device, so it's stability for long time is guaranteed. The meter has a light-coupling RS-232C interface and a computer software, can display, draw, record all test processes on a computer. The graphic software has an exclusive dynamic scale, which can describe very small changes of electric parameters. MS8050 together with a computer becomes a very useful measurement recorder. The protection functions against some error operations get it's safety characteristic guaranteed. It is the best selection for factories, science research organizations, and laboratories in universities.

- 53000 counts measurement
- Auto/Manual range
- ACV and ACV measurements reach up to 1000V
- DC measurement accuracy reaches up to 0.03%
- 0.1 $\Omega$  resistance and 1 $\mu$ V voltage resolution
- Voltage/Current linear frequency measurement
- Logic frequency/duty cycle measurement
- Capacitance measurement from 0.01nF to 5000 $\mu$ F
- AC/AC + DC true RMS/dBm measurement
- MAX/MIN/MAX-MIN value, relative value, average value measurement
- Data hold
- RS-232C interface and PC Windows software
- Software calibrates automatically
- Full overload protection
- Color fluorescent double display
- Full screen memory function
- Insulating performance reaching 1000V CATII

## SPECIFICATIONS:

ACV/DCV + ACV:	50mV/500mV/5V/50V/500V/1000V $\pm$ 0.5%
DCV:	50mV/500mV/5V/50V/500V/1000V $\pm$ 0.03%
AC Current/DC Current + AC Current:	500 $\mu$ A/5000 $\mu$ A/50mA/500mA/5A $\pm$ 0.75%, 10A $\pm$ 1.5%
DC Current:	500 $\mu$ A/5000 $\mu$ A/50mA/500mA/5A/10A $\pm$ 0.15%
Resistance:	500 $\Omega$ /5K $\Omega$ /50K $\Omega$ /500K $\Omega$ /5M $\Omega$ $\pm$ 0.1%, 50M $\Omega$ $\pm$ 0.5%
Capacitance:	50nF/500nF/5 $\mu$ F/50 $\mu$ F $\pm$ 1%, 500 $\mu$ F/5000 $\mu$ F $\pm$ 2%
Diode:	2.5V $\pm$ 1%
Duty cycle:	5Hz ~ 500kHz
Range:	10% ~ 90%
Logic Frequency:	5Hz ~ 2MHz $\pm$ 0.006%, Vpp 2 ~ 5V Square Wave
Linear Frequency:	10Hz ~ 200KHz $\pm$ 0.006%
Sensitivity:	Lowest 4mV
Memory function:	30 full screen
Display:	VFD size 140mm x 40mm
Power:	~220V $\pm$ 10% or ~110V $\pm$ 10%
Size:	350mm x 250mm x 100mm
Weight:	Approx. 2000g