

The Tekneka M165 is a True RMS multimeter designed for accurate measurement across a wide range of electrical parameters. It can measure voltages from 0.001mV up to 1000V and currents from 0.01µA to 10A, making it suitable for both low-signal and high-load testing. The meter also supports resistance measurements from 0.01Ω to 50MΩ and capacitance from 0.01nF to 5000µF. Additional functions include logic frequency up to 2MHz, linear frequency up to 200kHz, dBm measurement, and AC+DC combined readings. With RS-232C connectivity for data transfer and a CAT III 1000V safety rating, it's a reliable tool for daily electrical work and troubleshooting.

Features

- True RMS measurement for AC, DC, and AC+DC signals
- 50,000 count display with 51-segment analog bar graph
- Ultra-high accuracy up to ±0.03% for DC Voltage
- AC/DC voltage measurement up to 1000V
- AC/DC current measurement up to 10A
- Capacitance, resistance, frequency, duty cycle, diode, and continuity functions
- PC-LINK RS-232C infrared interface for data transfer and logging
- Auto/manual ranging, backlight, relative/hold/max/min functions
- Safety rated CAT III 1000V, pollution degree 2
- Durable, compact, and battery-powered device



Application

Widely used by electrical/electronic industries, production industries, maintenance service providers, construction industries, automobile industries, electronics service industries, smartphone services, oil & gas industries, electrical inspectors etc.

Package Includes

- Test lead set
- Alligator clip test lead set
- 6 x AAA 1.5V batteries
- Device holster
- RS232 cable
- PC-Link CD

Ordering Info.

M165.....TRUE RMS Digital Multimeter

Description	Ranges	Basic Accuracy
DC Voltage	0.10mV ~ 1000.0V	±(0.03%+6 dgt)
AC Voltage	1.00mV ~ 1000.0V	±(0.5%+40 dgt)
DC Current	1.0µA to 10.00A	±(0.15%+15 dgt)
AC Current	1.0µA to 10.00A	±(0.75%+20 dgt)
Resistance	0.00Ω ~ 50.00MΩ	±(0.1%+5 dgt)
Capacitance	0.300nF ~ 40.00mF	±(5.0%+10 dgt)
Frequency	5.000Hz ~ 10.00MHz	±(0.006%+4 dgt)
Diode	Up to 2.5V	±(1%+5 dgt)
Duty Ratio	5% ~ 95%	±(0.006%+4 dgt)
Continuity	Meter beeps at <50Ω	

General Specification	
Display (LCD)	4½ digit: 50000 counts
Ranging	Auto/Manual
Sampling Rate	2.5 times/sec
Safety Rating	1000V CAT III pollution grade 2
True RMS	√
Data Hold	√
Backlight	√
Low Battery Indication	√
Auto Power Off	√
Built Material	ABS
PC Interface	√
dBm (AC Power)	√
Buzzer Alarm	√
Protection	IP50/IP20 for terminals
Operating Temperature	0 to 51°C
Power Supply	6 x AAA 1.5V batteries
Dimension	200 x 100 x 40mm
Weight	Net: 560g/Gross: 1.0Kg