



M37

TRMS Multimeter with AutoRange and IP65



1.1. Specifications


Function	Range	Resolution	Accuracy
DC Voltage	60.00mV	0.01mV	±(0.5% reading + 8digits)
	600.0mV	0.1mV	
	6.000V	0.001V	
	60.00V	0.01V	
	600.0V	0.1V	
AC True RMS Voltage	60.00mV	0.01mV	±(1.2% reading + 8digits)
	600.0mV	0.1mV	
	6.000V	0.001V	
	60.00V	0.01V	
	600.0V	0.1V	
All AC voltage ranges are specified from 5% of range to 100% of range .AC Voltage Bandwidth:50Hz to 60Hz(ALL WAVE) 45Hz to 1KHz(SINE WAVE)			
Lo Z AC/DC Voltage	6.000V	0.001V	±(3.0% reading + 8digits)
	60.00V	0.01V	
	600.0V	0.1V	
All AC voltage ranges are specified from 5% of range to 100% of range AC Voltage Bandwidth:50Hz to 60Hz(ALL WAVE) 45Hz to 1KHz(SINE WAVE) Input Impedance: approx. 3kΩ			
VFD 45Hz to 400Hz	100V~600V	0.1V	±(3.5% reading + 5 digits)
DC Current	6.000A	0.001A	±(1.5% reading + 8 digits)
	10.00A	0.01A	
AC True RMS Current	6.000A	0.001A	±(1.5% reading + 8 digits)
	10.00A	0.01A	
All AC Current ranges are specified from 5% of range to 100% of range.AC Current Bandwidth:50Hz to 60Hz(ALL WAVE) 45Hz to 400Hz(SINE WAVE)			

Function	Range	Resolution	Accuracy
Resistance	600.0Ω	0.1Ω	±(1.5% reading + 5 digits)
	6.000kΩ	0.001kΩ	
	60.00kΩ	0.01kΩ	
	600.0kΩ	0.1kΩ	
	6.000MΩ	0.001MΩ	±(2.5% reading + 5 digits)
	60.00MΩ	0.01MΩ	
Capacitance	60.00nF	0.01nF	±(2.5% reading + 10 digits)
	600.0nF	0.1nF	
	6.000μF	0.001μF	±(2.5% reading + 5 digits)
	60.00μF	0.01μF	
	600.0μF	0.1μF	
	6.000mF	0.001mF	±(3.5% reading + 5 digits)
	60.00mF	0.01mF	
Frequency (Electronic)	9.999Hz	0.001Hz	±(1.2%+5 reading)
	99.99Hz	0.01Hz	
	999.9Hz	0.1Hz	
	9.999kHz	0.001KHz	
	99.99kHz	0.01KHz	
	999.9KHz	0.1KHz	
	9.999MHz	0.001MHz	
	Sensitivity: >0.6V RMS while ≤100kHz; >3V RMS while >100kHz		
Frequency (Electrical)	9.999Hz	0.001Hz	±(1.2%+5 reading)
	99.99Hz	0.01Hz	
	999.9Hz	0.1Hz	
	Sensitivity: AC mV Range(≥100mV),ACV Range(≥15V) 6/10A Range(≥2A)		
Duty Cycle	0.1 to 99.9%	0.1%	±(1.2% reading +5 digits)
	Pulse width: >100us, <100ms Frequency(Electrical):10Hz to 1kHz Frequency(Electronic): 5Hz to 100kHz		
Temperature	-4°F to 1832°F	1°F	±(1.5% + 9°F)
	-20°C to 1000°C	1°C	±(1.5% + 5°C)

Note: Accuracy specifications consist of two elements:

- (% reading) – This is the accuracy of the measurement circuit.
- (+ digits) – This is the accuracy of the analog to digital converter.

1.2. General Specifications

Insulation	Class 2, Double Insulation
Enclosure	Double Molded, IP67 waterproof and dust-proof
Diode Test	Test current 1mA max., open circuit voltage 3V typical
Continuity Test	Audible signal if the resistance is approx. 50Ω or less
Low Battery Indication	 is displayed
Display	6000 counts LCD Negativity display
Over Range Indication	“OL” is displayed
Polarity	Minus symbol “-” is displayed for negative polarity
Measurement Rate	3 readings per second, nominal
Auto Power Off	approx. 15 minutes
Input Impedance	>10MΩ AC/DC Voltage
AC Response	True RMS
AC Voltage Bandwidth	45Hz to 1kHz
AC Current Bandwidth	45Hz to 400Hz
Batteries	Three “AAA” 1.5V batteries
Fuse	10A/600V (5 x 20mm) fast acting Fuse
Operating Environment	41°F to 104°F (5°C to 40°C)
Storage Environment	14°F to 122°F (-10°C to 50°C)
Operating Humidity	Max 80% up to 87°F (31°C) decreasing linearly to 50% at 104°F(40°C)
Storage Humidity	<80%

Dimensions/ Weight	5.8" x 2.7" x 2.0"/0.70lb) (147 x 68 x 50mm/318g)
Safety	Complies with UL 61010-1 v.3 for measurement Category CAT III 600V, Pollution Degree 2