



M25

TRMS Multimeter with AutoRange and IP65



1.1. Specifications

Function	Range	Resolution	Accuracy
DC Voltage	400.0mV	0.1mV	±(0.5% reading + 8digits)
	4.000V	0.001V	
	40.00V	0.01V	
	400.0V	0.1V	
	600.0V	1V	
AC True RMS Voltage	4.000V	0.001V	±(1.2% reading + 8digits)
	40.00V	0.01V	
	400.0V	0.1V	
	600V	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	4.000V	0.001V	±(3.0% reading + 8digits)
	40.00V	0.01V	
	400.0V	0.1V	
	600V	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~60 0V	0.1V/1V	±(3.5% reading + 5 digits)
DC Current	400.0uA	0.1uA	±(1.2% reading + 5 digits) ±(1.2% reading + 8 digits)
	4000uA	1uA	
	40.00mA	0.01mA	
	400.0mA	0.1mA	
AC True RMS Current	400.0uA	0.1uA	±(1.2% reading + 5 digits) ±(1.2% reading + 8 digits)
	4000uA	1uA	
	40.00mA	0.01mA	
	400.0mA	0.1mA	
	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	400.0Ω	0.1Ω	±(1.5% reading + 5 digits)
	4.000kΩ	0.001kΩ	
	40.00kΩ	0.01kΩ	
	400.0kΩ	0.1kΩ	
	4.000MΩ	0.001MΩ	
	40.00MΩ	0.01MΩ	±(2.5% reading + 5 digits)
Capacitance	40.00nF	0.01nF	±(2.5% reading + 10 digits)
	400.0nF	0.1nF`	
	4.000uF	0.001uF	±(2.5% reading + 5 digits)
	40.00uF	0.01uF	
	400.0uF	0.1uF	

	4.000mF	0.001mF	±(3.5% reading + 5 digits)
	40.00mF	0.01mF	
Frequency	9.999Hz	0.001Hz	±(1.2%+5 reading)
	99.99Hz	0.01Hz	
	999.9Hz	0.1Hz	
	Sensitivity:ACV Range(≥15V); uA Range (≥1000uA); mA Range (≥10mA);		
Duty Cycle	0.1 to 99.9%	0.1%	±(1.2% reading +5 digits)
	Pulse width: >100us, <100ms Frequency:10Hz to 1kHz		

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	4000 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	500mA/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