

# TM-507 Insulation Tester



EN 61557, EN 61010-1 CAT IV 600V  
 4 digit LCD display.  
 Automatic Polarity Indication.  
 Low battery indication.  
 Measures high insulation resistance with auto range:  
 250V: 4M $\Omega$  to 1000M $\Omega$ .  
 500V: 4M $\Omega$  to 2000M $\Omega$ .  
 1000V: 4M $\Omega$  to 4000M $\Omega$ .  
 Measures AC and DC voltages: 0V to 600V.  
 Function Keys: POWER, GO, ZERO, LOCK, BACKLIT.  
 Continuity Test.  
 Auto Discharge.  
 Auto Power Off.

## DC Voltage Measurement

Range	Resolution	Accuracy	Input Impedance	Overload Protection
0.1V to 600V	0.1V	$\pm(0.5\%$ of rdg + 1dgt)	3M $\Omega$	605V AC max RMS

## AC Voltage Measurement

Range	Resolution	Accuracy	Input Impedance	Overload Protection
0.1V to 600V	0.1V	$\pm(0.8\%$ of rdg + 4dgt)	3M $\Omega$	605V AC max RMS

Max crest factor

## Resistance Measurement/Test Continuity with buzzer

Range	Resolution	Accuracy	Overload Protection
0.1 $\Omega$ to 199.9 $\Omega$	0.1 $\Omega$	$\pm(2.0\%$ of rdg + 3dgt)	605V AC max RMS

The buzzer sounds when measured resistance is lower than 30 ohms.

LO Ohms

Range	Resolution	Accuracy	Overload Protection
0.01Ω to 19.99Ω	0.01Ω	±(2.0% of rdg + 3dgt)	605V AC max RMS

Test Current: >200mA DC up to 5 ohms (including cable resistance).

Test Current: >45mA DC up to 5 ohms (including cable resistance).

Open Circuit Voltage: 4V <V<sub>o</sub> <24V

MOhm: Insulation Resistance (Auto Ranging)

Test Voltage	Resistance Range	Resolution	Accuracy	Overload Protection
250V	0.001 to 0.100MΩ	0.001MΩ	±10 digits	605V max RMS
	0.101 to 3.999MΩ	0.001MΩ	±(2.0% rdg + 5 dgt)	
	4.00 to 39.99MΩ	0.01MΩ	±(5.0% rdg + 5 dgt)	
	40.0 to 399.9MΩ	0.1MΩ		
	400 to 1000MΩ	1MΩ		
500V	0.001 to 0.250MΩ	0.001MΩ	±15 digits	
	0.251 to 3.999MΩ	0.001MΩ	±(2.0% rdg + 5 dgt)	
	4.00 to 39.99MΩ	0.01MΩ		
	40.0 to 399.9MΩ	0.1MΩ		
	400 to 2000MΩ	1MΩ	±(5.0% rdg + 5 dgt)	
1000V	0.001 to 0.250MΩ	0.001MΩ	±15 digits	
	0.251 to 3.999MΩ	0.001MΩ	±(2.0% rdg + 5 dgt)	
	4.00 to 39.99MΩ	0.01MΩ		
	40.0 to 399.9MΩ	0.1MΩ		
	400 to 1000MΩ	1MΩ	±(3.0% rdg + 5 dgt)	
	1000 to 4000MΩ	1MΩ	±(5.0% rdg + 10 dgt)	