

# Technical Specifications

Function		MT1007	MT1005	MT1003	MT1001
DC Voltage	Range	50 mV - 500mV - 5V - 50V - 500V - 1000V		400mV - 4V - 40V - 400V - 1000V	
	Basic Accuracy	± (0.05% + 2 dgt)	± (0.08% + 1 dgt)	± (0.5% + 2 dgt)	
	Best Resolution	1µV	10µV	0.1mV	
AC Voltage	Range	500mV - 5V - 50V - 500V - 1000V (40Hz to 50KHz)		400mV - 4V - 40V - 400V - 1000V	
	Basic Accuracy	± (0.3% + 10 dgt)	± (0.5% + 2 dgt)	± (0.75% + 3 dgt)	± (2.0% + 3 dgt)
	Best Resolution	10µV	100µV	1mV	
DC Current	Range	500µA - 5mA - 50mA - 500mA - 5A - 10A		400µA - 4mA - 40mA - 400mA - 4A - 10A	
	Basic Accuracy	± (0.1% + 5 dgt)	± (0.5% + 2 dgt)	± (1.0% + 2 dgt)	
	Best Resolution	10nA	100nA	0.1µA	
AC Current	Range	500µA - 5mA - 50mA - 500mA - 5A - 10A		400µA - 4mA - 40mA - 400mA - 4A - 10A	
	Basic Accuracy	± (0.4% + 10 dgt)	± (0.8% + 10 dgt)	± (1.0% + 5 dgt)	
	Best Resolution	10nA	100nA	0.1µA	
Resistance	Range	50Ω - 500Ω - 5kΩ - 50kΩ - 500kΩ - 5MΩ - 50MΩ		400Ω - 4kΩ - 40kΩ - 400kΩ - 4MΩ - 40MΩ	
	Basic Accuracy	± (0.1% + 1 dgt)	± (0.3% + 2 dgt)	± (0.5% + 3 dgt)	
	Best Resolution	0.001Ω	0.01Ω	0.1 Ω	
Temperature	Range	-50°C to 1370°C or -58°F to 2498°F		-40°C to 1370°C	—
	Basic Accuracy	± 3°C + 1 dgt		± (1.0% + 1°C)	—
	Best Resolution	0.1°C		0.1°C	—
Frequency	Range	50Hz - 500Hz - 5kHz - 50kHz - 500kHz - 5MHz		5Hz - 5MHz	
	Basic Accuracy	± (0.002% + 3 dgt)	± (0.01% + 3 dgt)	± (0.05% + 2 dgt)	
	Best Resolution	0.01Hz		0.01Hz	
Capacitance	Range	5nF - 50nF - 500nF - 5µF - 50µF - 500µF - 5000µF		40nF - 400nF - 4µF-40µF-100µF	
	Basic Accuracy	± (1.0% + 5 dgt)		± (2.5% + 10 dgt)	
	Best Resolution	1pF		10pF	
Conductance	Range	0 ~ 50nS		—	
	Basic Accuracy	± (0.1% + 10 dgt)		—	
Duty Cycle	Range	0.1% - 99.9%		0.1% - 99.9%	
	Basic Accuracy	± (0.1% + 0.05% per kHz + 1 count)		± (0.1% + 0.05% per kHz + 1 count)	
<b>General</b>					
Battery Life (Alkaline Battery)		150 Hours Typical		700 Hours Typical	
Dimensions (LxWxD) [Incl Holster]		208 x 103 x 54mm		188 x 98 x 45mm	
Weight (With Holster)		655g		525g	
Safety Standards		IEC 1010-1 CAT III 1000V, UL 3111-1, ANSI/ISI-S 82, 01-94 to 1000V CAT III, CSA C 22.2 No 1010.1-92,			
Standard Accessories		Silicone Test leads, K-Type Thermocouple, Battery, RS-232C Interface Cable and sample Software		1000V CAT III Test leads, Croc Clips, K-Type Thermocouple, Battery and User Manual	1000V CAT III Test leads, Croc Clips, Battery and User Manual
Replacement Accessories		Leads HDT1288, Crocodile Clips HDT 3914			