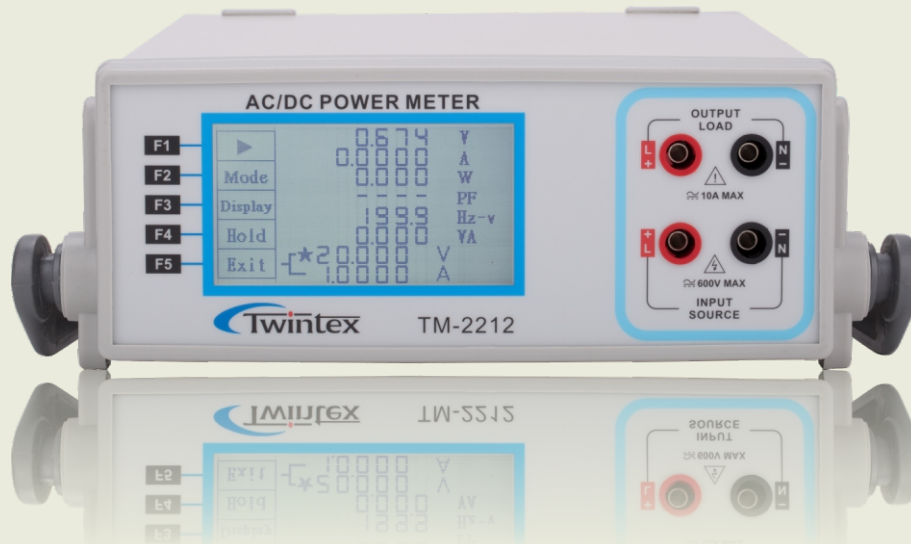


1000.0Vpp
50.00App
50.00kW
10.00kHz
TRUE RMS



TM-2212



► Introduction

TM-2212 is an digital AC/DC power meter with 16-bit CPU microprocessor, equipped with multifunction of full digitized measurement, calibration and output. The microprocessor has the advantage of high-speed sampling and calculation function to accurately measure the distortion signal of wave form. Except for its essential measurement on AC/DC voltage, AC/DC current, AC/DC watt, power factor, frequency and Crest Factor, the TM-2212 also provides additional features of PT/CT ratio setting, display value holding, range selecting, auto-ranging, etc.

In order for an even more efficient and convenient communication, the TM-2212 is available with the standard RS-232 and RS-485 interfaces. The TM-2212 is a low-cost, easy-to-use power measuring instrument.

► Features

- Measurements: V, A, W, VA, VAR, PF, Hz, CF
- Large backlit LCD, 4 or 6 parameters displayed simultaneously
- True RMS V, A, W
- Auto calibration via computer
- Data Hold / Range Hold function
- High immunity to external noise
- CT ratio 1~9999
- RS-232 and RS-485 interfaces

► Specifications

Voltage		
Range		20.000Vpp, 50.00Vpp, 100.00Vpp, 200.00Vpp, 500.0Vpp, 1000.0Vpp
		6 ranges by auto-range or manual
Measurement type		True RMS
Input impedance		≥1MΩ
Maximum input voltage		1000V Peak
PT ratio setting		0.001 to 9999
Accuracy (23°C ± 5°C)	DC	±0.1% reading±0.1% range
	AC	±0.1% reading±0.1% range (45~65Hz)
		±0.2% reading±0.2% range±0.1% (10~45Hz, 65~10kHz)
Current		
Range		1.0000App, 2.0000App, 5.000App, 10.000App, 20.000App, 50.00App
		6 ranges by auto-range or manual
Measurement type		True RMS
Input impedance		≥0.01Ω
Maximum input voltage		50A Peak (20A rms)
CT ratio setting		0.001 to 9999
Accuracy (23°C ± 5°C)	DC	±0.1% reading±0.1% range
	AC	±0.1% reading±0.1% range (45~65Hz)
		±0.2% reading±0.2% range±0.1% (10~45Hz, 65~10kHz)
Watt		
Range		0.001W~50.00kW
Measurement type		True RMS
Accuracy (23°C ± 5°C)	DC	±0.2% reading±0.2% range
	AC	±0.2% reading±0.2% range (45~65Hz)
		±0.4% reading±0.4% range±0.2% (10~45Hz, 65~10kHz)
Power factor		
Range		0.001~1.000
Computation		W/(VxA)=Power Factor (PF)
Frequency		
Range		0.0 Hz~599.9 Hz
		600 Hz~5999 Hz
		6.00 kHz~10.00 kHz
Accuracy (23°C ± 5°C)		±0.2% reading±1 digit
General		
Display		Large backlit LCD, 4 or 6 parameters simultaneously
Minimum input		2% range
Response time		3 cycles/sec
Overload indicating		"PEAK"
Temperature coefficient		± 0.01% full scale/°C
Interface		RS-232/485
Operating environment		0~50°C, RH < 80 %
Power source		AC90~260V, 50/60Hz
Accessories		Power cord x1, Operation manual x1, RS-232/485 cable x1, Software CD x1
Dimension (WxHxD)		247x89x280mm
Weight		Approx.1.8kg



TM-8155+ / TM-8055

DC1000.0V

DC750.0V

20.000A

80.000M Ω / 20.000M Ω

8.0000MHz / 200.00kHz

TRUE RMS



► Features

TM-8155/8155+

- Large backlit LCD, 80000 counts Dual-display, Analog bar 21 sets
- 50 measuring functions, including basic DCV, ACV, DCA, ACA, Ω , CAP, Hz, TEMP, Diode and Continuity, etc.
- 18 sets of output frequency, Max. output up to 8MHz, 1800 waveforms, 1%~99% duty cycle
- Simultaneous measure (AC+DC), (AC+Hz), (DC+dBm), (dBm+Hz), (Hz+Duty), ($^{\circ}$ C+ $^{\circ}$ F)
- Auto data update and refresh, Auto data hold, Auto peak hold
- 36 hours dynamic records: MAX, MIN, AVG, MAX-MIN (REL Δ), (REL%), with up/low limit setting and timing measurement
- AC measuring adopts highly accurate true RMS measurement, with frequency bandwidth and AC+DC measuring, capable of accurate true RMS measuring of any waveforms in AC range
- RS-232 interface

TM-8055

- Large backlit LCD, 4 1/2 digits
- With basic DCV, ACV, DCA, ACA, Ω , CAP, Hz, hFE, TEMP, Diode and Continuity measuring functions
- Voltage range up to 1000V DC or peak-peak value AC, resolution up to 10uV
- Current range up to 20A, auto polarity shift, data hold
- AC measuring adopts highly accurate true RMS measurement, with frequency bandwidth and AC+DC measuring, capable of accurate true RMS measuring of any waveforms in AC range

► Specifications

Model		TM-8155+	TM-8055
Voltage			
Range	DC	80.000mV, 800.00mV, 8.0000V, 80.000V, 800.00V, 1000.0V	200.00mV, 2.0000V, 20.000V, 200.00V, 1000.0V
	AC	80.000mV, 800.00mV, 8.0000V, 80.000V, 750.0V	200.00mV, 2.0000V, 20.000V, 200.00V, 750.0V
Measurement type		True RMS	True RMS
Accuracy	DC	±(0.05% reading+5 digits)	±(0.05% reading+1 digit)
	AC	±(0.8% reading+50 digits)	±(0.8% reading+80 digits)
Current			
Range	DC	80.000mA, 800.00mA, 8.0000A, 20.000A	20.000mA, 200.00mA, 2.0000A, 20.000A
	AC	80.000mA, 800.00mA, 8.0000A, 20.000A	200.00mA, 2.0000A, 20.000A
Measurement type		True RMS	True RMS
Accuracy	DC	±(0.2% reading+10 digits)	±(0.35% reading+10 digits)
	AC	±(0.8% reading+20 digits)	±(0.8% reading+80 digits digits)
Resistance			
Range		800.00Ω, 8.0000kΩ, 80.000kΩ, 800.00kΩ, 8.0000MΩ, 80.000MΩ	200.00Ω, 2.0000kΩ, 20.000kΩ, 200.00kΩ, 2.0000MΩ, 20.000MΩ
Accuracy		±(0.3% reading+5 digits)	±(0.1% reading+5 digits)
Frequency			
Range		0.50Hz~8.0000MHz	20.000kHz, 200.00kHz
Accuracy		±(0.03% reading+2 digits)	±(1.0% reading+20 digits)
Capacitance			
Range		1.000nF, 10.00nF, 100.0nF, 1.000uF, 10.00uF, 100.0uF	20nF, 2uF, 200uF
Accuracy		±(2.5% reading+50 digits)	±(3.5% reading+20 digits)
Temperature			
Range		-50.0°C~1372.0°C / -58.0°F~2502.0°F	
Accuracy		±(2.0% reading+2 digits)	
Square wave output			
Range		3V / 0.5Hz~5kHz / 1%~99%	
Accuracy		±0.02%	
Special functions		Diode test, AC+DC, Continuity	Diode test, hFE test, AC+DC, Continuity
Overload protection		250V RMS	
General			
Display		Large backlit LCD, 2 parameters simultaneously	Large backlit LCD
Counts		80000	19999
Input Impedance		10MΩ	10MΩ
AC frequency response		40Hz-50kHz	40Hz-50kHz
Sampling rate		4 times/s; Analog bar 40 times/s	3 times/s
Range selection		Manual range or Auto range	Manual range
Interface		RS-232 interface	
Power source		AC115V/230V±10% selectable, 50/60Hz	AC115V/230V±10% selectable, 50/60Hz
Accessories		Power cord x1, Operation manual x1, RS-232 cable x1, Software CD x1, Test lead x1, Temperature probex1	Power cord x1, Operation manual x1, Test lead x1,
Dimension (WxHxD)		260x110x385mm	220x98x245mm
Weight		Approx.3kg	Approx.1.5kg