

AC/DC Digital Power Meter

TM-2212

Introduction

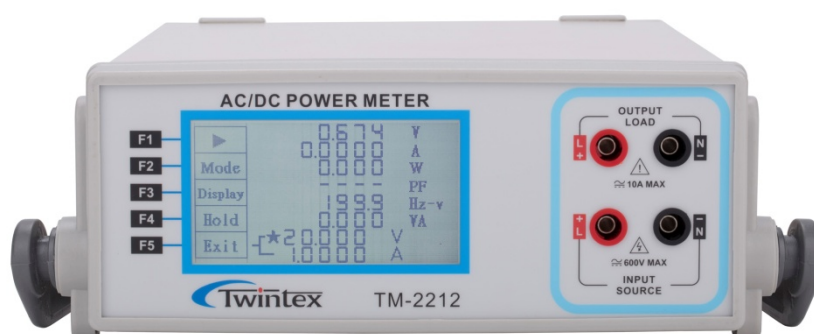
TM-2212 is an AC/DC digital power meter with 16-bit CPU microprocessor, equipped with multifunction of full digitized measurement, calibration and output. The microprocessor has the advantage of high-speed sampling and calculation function to accurately measure the distortion signal of wave form. Except 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 RS232 and RS485 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 screen LCD display, 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 RS485 interfaces

Product photo



AC/DC Digital Power Meter

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	$\geq 1\text{M}\Omega$
Maximum input voltage	1000V Peak
PT ratio setting	0.001 to 9999
Accuracy (at $23^{\circ}\text{C} \pm 5^{\circ}\text{C}$)	DC $\pm 0.1\%$ of reading $\pm 0.1\%$ of range AC $\pm 0.1\%$ of reading $\pm 0.1\%$ of range (45 ~ 65Hz) AC $\pm 0.2\%$ of reading $\pm 0.2\%$ of range $\pm 0.1\%$ of range (10~45Hz, 65~10kHz)
CURRENT	
Range	1.0000App, 2.0000App, 5.000App, 10.000App, 20.000App 6 ranges by auto-range or manual
Measurement type	True RMS
Input impedance	$\geq 0.01\Omega$
Maximum input current	50A Peak (20A rms)
CT ratio setting	0.001 to 9999
Accuracy (at $23^{\circ}\text{C} \pm 5^{\circ}\text{C}$)	DC $\pm 0.1\%$ of reading $\pm 0.1\%$ of range AC $\pm 0.1\%$ of reading $\pm 0.1\%$ of range (45~65Hz) AC $\pm 0.2\%$ of reading $\pm 0.2\%$ of range $\pm 0.1\%$ of range (10~45Hz, 65~10kHz)
WATT	
Range	0.001W~50kW
Measurement type	True RMS
Accuracy (at $23^{\circ}\text{C} \pm 5^{\circ}\text{C}$)	DC $\pm 0.21\%$ of reading $\pm 0.2\%$ of range AC $\pm 0.2\%$ of reading $\pm 0.2\%$ of range (45~65Hz) AC $\pm 0.4\%$ of reading $\pm 0.4\%$ of range $\pm 0.2\%$ of range (10~45Hz, 65~10kHz)
POWER FACTOR	
Range	0.001 to 1.000
Computation	$W/(V \times A) = \text{Power Factor (PF)}$
FREQUENCY	
Range	0.0 Hz to 599.9 Hz 600 Hz to 5999 Hz 6.00 kHz to 10.00 kHz
Accuracy	$\pm 0.2\%$ of reading ± 1 digit (at $23^{\circ}\text{C} \pm 5^{\circ}\text{C}$)
GENERAL	
Display	Large backlit LCD, 4 or 6 parameters simultaneously
Minimum input	2 % of Range
Response time	3 cycles / sec
Overload indicating	"PEAK"
Temperature coefficient	$\pm 0.01\%$ FS/ $^{\circ}\text{C}$
Operating environment	0~50 $^{\circ}\text{C}$, RH < 80 %
Interface	RS232 and RS485
Power source	AC90~260V, 50 / 60Hz
Accessories	Power cord x1, Operation manual x1, RS232 cable x1, Software CD x1
Dimensions	247W*89H*280D mm
Weight	Approx. 1.8kg