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AC/DC Power Meter



Product No : TM_2212

Product Description

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.

- ★ 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

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 (at 23°C ± 5 °C)	DC± 0.1% of reading ± 0.1% of range AC ± 0.1% of reading ± 0.1% of range (45 ~ 65Hz) AC ± 0.2% of reading ± 0.2% of range±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	≥0.01Ω
Maximum input voltage	50A Peak (20A rms)
CT ratio setting	0.001 to 9999
Accuracy (at 23°C ± 5 °C)	DC± 0.1% of reading ± 0.1% of range AC ± 0.1% of reading ± 0.1% of range (45~65Hz) AC ± 0.2% of reading ± 0.2% of range±0.1% of range (10~45Hz, 65~10kHz)
WATT	
Range	0.001W~50kW
Measurement type	True RMS
Accuracy (at 23°C ± 5 °C)	DC± 0.21% of reading ± 0.2% of range AC ± 0.2% of reading ± 0.2% of range (45~65Hz) AC ± 0.4% of reading ± 0.4% of range±0.2% of range (10~45Hz, 65~10kHz)
POWER FACTOR	
Range	0.001 to 1.000
Computation	W/(VxA)=Power Factor (PF)
FREQUENCY	
Range	0.0Hz to 599.9Hz 600Hz to5999 Hz 6.00kHz to 10.00 kHz
Accuracy	± 0.2% of reading ±1 digit

(at 23°C ± 5 °C)

GENERAL

Display	Large screen LCD display, 4 or 6 parameters simultaneously
Minimum input	2 % of Range
Response time	3 cycles / sec
Overload indicating	“PEAK”
Temperature coefficient	± 0.01% FS/°C
Operating environment	0~50°C, RH<80 %
Interface	RS232 and 485
Power source	AC90~260V, 50 / 60Hz
Accessories	RS232 cable x1, RS485 cable x1, junction box x1, software CD x1, operation manual x1, power cord x1
Size & weight	247W*89H*280D mm, approx.1.8kg

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