

PROGRAMMABLE PRECISION POWER ANALYZER

(A.C./D.C.)

Introduction:

Precision power analyzers are available in more than 50 ranges virtually covering power ranges from nano/micro/mili to mega-watt ranges. To meet the need of all industrial and research applications meeting all electrical, thermal, mechanical, and environmental specifications. These analyzers first choice for online monitoring of precision power at generation, transmission/distribution, defense, electrical/mechanical m/c testing instrument, industrial electronics, railway, lubricants, automobile and avionics and solid state physical application and many research and development activities. These meters are compatible to any standard or hall/shunt/thermocouple sensor and display with very high degree of accuracy/repeatability/reliability and are available in different constructional material like ceramic-coated MS, poly carbonate cabinets.

Benefits:

- 5-1/2 & 6-1/2 digit Display of power/volt/current in nano/micro/mili/kilo/mega ranges
- Low burden/higher accuracy upto 0.5% of reading.
- Consistent performance over large temperature/humidity range (70°C and 80 % RH)
- Scaled directly in ampere/volt/watts with repeatable accuracy.
- Auto/manual zero offset without drift.
- Auto drift tracking/RS-32 interface/high sample rate – 2000 sample/second.



MPPA-00099.9



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Pico WATT METER/nano volt meter (dual)

Electrical specification of power Analyzer

99999 Pico-watt Range < 99999.9 mega watt (A.C./D.C.)

Model	Range volt	Range $10^{-9}/10^{-12}/10^{-15}$ Ampere	Range $10^{-9}/10^{-12}/10^{-15}$ WATT	Pulse/D.C./Pulse Frequency Range	Accuracy Restricted to Resolution level	Resolution Quantified/ optional	Voltage/current source Volt/current/optional As demanded	Burdon Micro-volt	Interface
MPPA-999990101	10.0/5.0 -999999Nv 1.0 mV-10.0Volts	05.0/01.0 -999999nA 1.0 mA-10.0Amp	10.0/5.0 -999999nW 1.0 mW-10.0Wolts	0-50K.Hz	99.99999%	5 nV/5nA	015 VOLTS/001.0 A	< 100	RS-232
MPPA-999990401	10.0/5.0 -999999Nv 1.0 mV-20.0Volts	05.0/01.0 -999999nA 1.0 mA-20.0Amp	10.0/5.0 -999999nW 1.0 mW-20.0Wolts	0-50 k.Hz	99.99999%	5 nV/5nA	040 VOLTS/001.0 A	< 100	RS-232
MPPA-999990102	05.0/1.0 -999999Nv 1.0 mV-10.0Volts	10.0/05.0 -999999pA 0.001 m.A-1.00Amp	05.0/1.0 -999999nW 1.0 mW-10.0Wolts	0-50K.Hz	99.99999%	5 nV/5pA	015 VOLTS/001.0 A	< 100	RS-232
MPPA-999990402	05.0/1.0 -999999Nv 1.0 mV-20.0Volts	10.0/05.0 -999999pA 0.001 m.A-2.00Amp	05.0/1.0 -999999nW 1.0 mW-20.0Wolts	0-50 k.Hz	99.99999%	5 nV/5pA	040 VOLTS/001.0 A	< 100	RS-232
MPPA-999991002	05.0/1.0 -999999Nv 1.0 mV-99.9Volts	10.0/05.0 -999999pA 0.001 m.A-10.0Amp	05.0/1.0 -999999nW 1.0 mW-99.9Wolts	0-50k..Hz	99.99999%	5 nV/5pA	100 VOLTS/001.0 A	< 100	RS-232
MPPA-999992002	05.0/1.0 -999999Nv 1.0 mV-199Volts	10.0/05.0 -999999pA 1.0 mA-199Amp	05.0/1.0 -999999nW 1.0 mW-199Wolts	0-50 k.Hz	99.99999%	5 nV/5pA	200 VOLTS/001.0 A	< 100	RS-232
MPPA-999992003	05.0/1.0 -999999Nv 1.0 mV-199Volts	10.0/05.0 -999999pA 0.0001mA-10.0 mA	05.0/1.0 -999999nW 1.0 mW-199Wolts	0-50 k.Hz	99.99999%	5 nV/5fA	200 VOLTS/010.0m A	< 100	RS-232

General electrical/mechanical specifications:

Operating voltage: 220 volt A.C. (50-20,000 Hz)/ 12 volts D.C.
 Measurement range (full scale): as above in different model.
 Ampere meter signal: $10^{-9}/10^{-12}/10^{-15}$ 100 ampere AC/DC (optional)
 Input capacitance: 10 nF
 Response time: 1000 sample/sec
 Burden: less than 100 micro volt/full scales current or better
 Accuracy: 0.5/1.0/2.0 % reading
 Repeatability: 100 of reading
 Resolution: 1/5 nV & 1/5 nano amps or optional and may be altered based on time behavior of signal
 Range (V/I -A.C./D.C.): $10^{-09}-10^{-04}/10^{-4}-10^{+1}/10^{+1}-10^{+3}$ volt least count- 5.0 nano volt
 $10^{-12}-10^{-07}$ amp/ $10^{-7}-10^{-2}/10^{-02}-10^{+2}$ amp least count- 5.0 Pico ampere
 $10^{-12}-10^{-07}/10^{-7}-10^{+2}/10^{-02}-10^{+2}$ watt least count- step down ratio 1:100000
 Linearity adjustment: upto 100 nano count
 Input imedence: ultra low(<1000 nano volt burden),
 Filtering: low pass(adjustable)
 Offset: variable upto 10,000 count (manual/auto)
 CMMR: >80 db at 50-60 Hz
 Isolation: > 100 giga ohm
 Connector: BNC-9 pinx2 and BNC-25 pinx2
 Size: 5X8X8 inches/rack mounted or portable
 Interface: RS-232
 Option : ADDITIONAL SOFTWARE to plot V/I OR ANY DESIRED INFERENTIAL PARAMETER.



MPPA-999990402

NOTES: The numeral after product code indicates the (ampere meter) range and last digit corresponds to size (5x5x8, 8x8x12)

THESE SPECIFICATIONS OR PART THERE OF MAY BE MODIFIED TO MEET ANY TAILOR MADE SOLUTIONS.

NOTES: The numeral after product code indicates the (nano volts) range and last digit corresponds to size of panel (5x5x8, 8x8x12)

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