VALHALLA
SCIENTIFIC

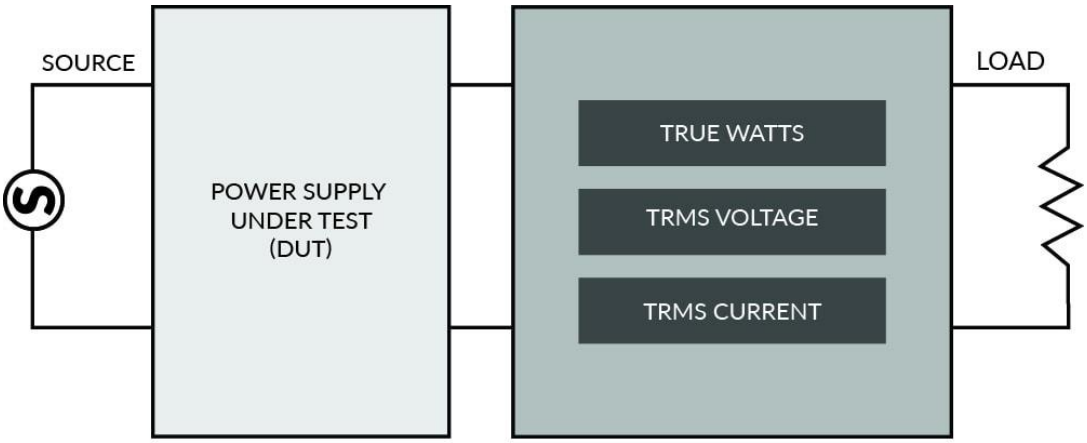
Power Analyzer
2105

The model 2105 provides accurate, reliable, & low-cost power measurement that enables engineering, production test, and quality assurance departments determine precise product power consumption from DC and AC power sources.

- Up to 20A/phase Direct (Self Contained Shunt 0.1%)
- Expandable to 1000 amps (optional, see I-1000 C.T.)
- True Power Measurements, VI cos Ø
- High Accuracy Measurement: 0.15% DC to 5KHz
- Bandwidth~ DC, 40 Hz to 50 KHz
- Zero to Unity Power Factor Response
- Accurate Regardless of Waveform Distortion
- Certificate of N.I.S.T. traceability

Low Cost Wide Range Power Analyzer

Accurate, Reliable Low-Cost Power Measurements



Valhalla Scientific 2105 Wattmeter

The Model 2105 provides a fast and convenient method of determining product efficiency, power factor, and true RMS current draw. Phase angle relationships may be calculated through manipulation of the displayed quantities.

The design of these models permits them to make accurate power measurements even in the most difficult applications. Switching mode power supplies, SCR controlled circuits and pulsed DC devices are just a few of the applications requiring the true power measurement capability of the Valhalla 2105 Power Analyzer. The instrument features dual independent digital displays: the left display provides a continuous indication of true power in watts, while the right display is switch-selectable between amperes (true RMS) or volts (true RMS).

A quick and easy way to connect our load to the 2105 is via the “X-21” Load Extension Cord. Approximately three feet in length for each half, this convenient adaptor cord plugs directly into a standard 115V AC power outlet and mates with the 2105 via heavy duty banana jacks.

Excellent Value Bench-Top Power Analyzer

Rapidly determine product efficiency, power factor, and true RMS current draw.

Featuring dual, independent digital displays, the 2105’s left display provides a continuous indication of true power in watts, while the right display is switch selectable between amperes (true RMS) and volts (true RMS).

Low cost, wide ranges

The 2105 features twin high-resolution 4 1/2 digital displays, DC to 50 kHz frequency response, true power measurement, true RMS voltage and current and built-in peak overload indicators. The 2105 offers 600, 300, 150 and 30 volt ranges and 20, 2 ans 200m amp ranges.

Accurate power measurements in difficult applications

Switching mode power supplies, SCR controlled circuits and pulsed DC devices are just a few of the applications requiring the true power measurement capability of the Valhalla 2105 Power Analyzer. This benchtop single-phase Wide Range Digital Power Analyzer is fully loaded with measurement features you'd expect on instruments costing three times the price. The Valhalla 2105 power meter is also a great measurement instrument for college and university motor test laboratories.

Technical Specifications

Voltage Range	.2000A	2.000A	20.000A
30V	6.000W	60.00W	600.0W
150V	30.00W	300.0W	3000W
300V	60.00W	600.0W	6000W
600V	120.00W	1200.0W	12000W

	DC & 40Hz – 5kHz	5kHz – 10kHz (12A Max)	10kHz – 20kHz. (2A Max)
Voltage: AC+DC, DC Coupled	±0.1% of rdg ±6 counts	±0.5% of rdg ±0.5% of rng	±1.25% of rdg ±1.75% of rng
Current: AC+DC, DC Coupled	±0.1% of rdg ±6 counts	±0.5% of rdg ±0.5% of rng	±1% of rdg ±1% of rng
Watts: AC+DC, DC Coupled	±0.25% of rdg ±6 counts	±0.5% of rdg ±0.5% of rng	±1% of rdg ±1% of rng

Crest Factor Response:	50:1 for minimum RMS input, linearly decreasing to 2.5:1 for full-scale RMS input
Minimum Inputs:	5% of voltage and current ranges for specified accuracies
Maximum Voltage Input (without damage):	600VDC or RMS, ±1500VPEAK
Voltage Impedance:	600kΩ
Current Shunt Impedance:	0.01Ω
Max Common Mode:	±1500V peak, neutral to earth
Peak Indicators:	Illuminate at 2.5 x full scale for voltage and current
Over-range:	150% of full scale for DC, up to “maximum input” specification
Temperature Coefficient:	±0.025% of range per °C from 0°C-20°C and 30°C-50°C
Source/Load Connections:	4- terminal heavy-duty input jacks
Power Requirements	105-125Vac or 210-250Vac, 50-400Hz; 25VA maximum
Operating Temperature Range	0°C to 50°C; -20°C to 70°C Storage
Humidity	70% RH max @ 40°C (non-condensing)
Dimensions	25cm W x 27cm D x 8cm H (10” W x 10.5” D x 3” H)
Weight	3.5lbs / 1.7kg net