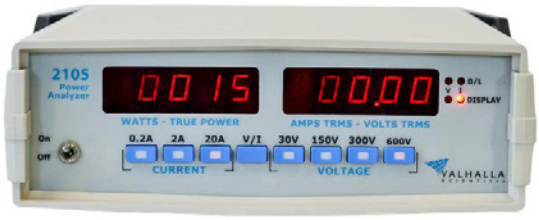
Low Cost Wide Range Power Analyzer
Accurate, Reliable Low-Cost Power Measurements

- 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 to5KHz
- 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



Valhalla Scientific Model 2105 is accurate, reliable low-cost power measurement devices designed to aid engineering, production test, and quality assurance departments in determination of product power consumption from DC and AC power sources. The instruments feature dual independent digital displays. The left display provides a continuous indication of true power in watts. The right display is switch selectable between amperes (true RMS) or volts (true RMS).

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.

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.

Range Specifications

		Current Ranges		
		.2000A	2.000A	20.00A
Voltage Range	30.00V	6.000W	60.00W	600.0W
	150.00V	30.00W	300.0W	3000W
	300.0V	60.00W	600.0W	6000W
	600.0V	120.00W	1200.0W	12000W
		Watts		

Accuracies			
	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% of rdg ±1% 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
(Usable above 20kHz to 50kHz with typically an additional 1% error per 10kHz)			

General Specifications

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, ±1500V_{PEAK}
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

Power Requirements: 105-125Vac or 210-250Vac, 50-400Hz; 25VA maximum

Temperature

Operating Temp. Range: 0°C to 50°C; -20°C to 70°C Storage
Humidity 70% RH max @ 40°C (non-condensing)

Physical Specifications

Size: 25cm W x 27cm D x 8cm H (10" W x 10.5" D x 3" H)
Weight: 3.5lbs / 1.7kg net

Accessories

I-100	100A Clamp - 100:1 ratio is 2% acc. 45Hz-1kHz. For 2" dia. Wire	***I-1000***	1000A Clamp - 1000:1 ratio is 2% acc. 50Hz-1kHz.
X-21	It allows for quick and easy connection and testing of loads that use a standard AC plug. 6 feet in length, up to 20 amperes.	**HCC**	Pelican 1500 Hard Carrying Case with Custom Foam for the meter, battery charger, up to 3 sets of leads and extra batteries.
R4	19" Rack Mount Adaptor		