



800 Series Power Clamps

- Performs single-phase or three-phase measurements
- 2000A current capability
- True RMS readings for error-free testing
- Power measurements: kW, kVA, kVAR and power factor



Calculates readings for both 3 ϕ W and 3 ϕ W circuits





800 Series Power Clamps

800 Series Power Clamps from IDEAL. True RMS clamps designed to handle power quality measurements for commercial and industrial jobs. Loaded with user-friendly features designed to save time and effort. Determines true power, apparent power, reactive power and power factor in a single clamp, bypassing the need for manual calculations. Built to be rugged and versatile, the 800 Series is a necessity for commercial and industrial power quality jobs.

Common Features

- 2000A AC/DC current capability
- True RMS
- Kilowatts
- Data hold
- Auto ranging
- DC current zero function
- Overload protection
- Lifetime limited warranty

61-800

- 2000AAC current capability
- 2500ADC current capability
- Temperature
- Analog output (current ranges)
- Relative mode
- Min/max
- Audible continuity



61-802

- 2000A AC/DC current capability
- kVA
- kVAR
- Power factor
- Frequency
- Dual display
- Memory recall



An easy-to-read dual display facilitates multiple readings. A useful feature for viewing such combinations as power factor and kW, frequency and volts, volts and amps, or kVAR and kVA.

800 Series Specifications	61-800	61-802
AC VOLTAGE		
Range & Resolution	4.000/40.00/400.0/600V	200.0/500/600V
Basic Accuracy	1.5%	1.5%
DC VOLTAGE		
Range & Resolution	400.0m/4.000/40.00/400.0/600V	200.0/500/800V
Basic Accuracy	1.5%	1.5%
AC CURRENT		
Range & Resolution	400.0/1000/2100A	200.0/500/2000A
Basic Accuracy	1.5%	1.5%
DC CURRENT		
Range & Resolution	400.0/2000/2500A	200.0/500/2000A
Basic Accuracy	1.5%	1.5%
KILOWATT (True Power)		
Range & Resolution	40.00/400.0/1200kW	100.0/1000/1200kW
Basic Accuracy	2.5%	2.0%
kVAR (Reactive Power)		
Range & Resolution	—	100.0/1000/1200kVAR
Basic Accuracy	—	2.0%
kVA (Apparent Power)		
Range & Resolution	—	100.0/1000/1200kVA
Basic Accuracy	—	2.0%
RESISTANCE		
Range & Resolution	40.00/400.0Ω	—
Basic Accuracy	1.0%	—
FREQUENCY		
Range & Resolution	—	50.0/60.0/400.0Hz
Basic Accuracy	—	0.5%
TEMPERATURE		
Range & Resolution	-50.0 to 1000°F	—
Basic Accuracy	1.0%	—

Why monitor power factor?

$$PF = \frac{W}{VA}$$

Power factor is a measurement of how efficiently power is used. Power factor is the ratio of W to VA or, in other words, the amount of energy that is supplied but not actually usable by the system. This can add up to thousands of dollars a month for commercial and industrial buildings. On top of that, utility companies charge an additional premium when the power factor drops to a low level. For these reasons, contractors are often called on to monitor power factor. Using a power clamp is the most efficient and accurate means of doing so.

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Cat III - 600V rated

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