

Voltech CL100 Current Transformer

Clamp-on Transformer for 100A : 1A AC Current Measurements



The Voltech CL100 is a clamp-on current transformer that extends the AC current capability of Voltech power analyzers such as the PM100, PM300 or PM3000A to 100A rms.

Its close-tolerance turns ratio and carefully controlled magnetic circuit allow the CL100 transformer to achieve an accuracy that is typically better than 1% (maximum 2%). The robust construction of the CL100 provides a high level of isolation and protection against electrical shock.

Specification

Frequency Range:	40Hz to 5kHz
Current Range:	1A to 100A rms
Accuracy:	1A to 100A: Better than $\pm 2\%$
Phase Error:	2° to 3.5° with a 0.1Ω load impedance
Load Impedance:	0.5Ω maximum
Weight:	105g

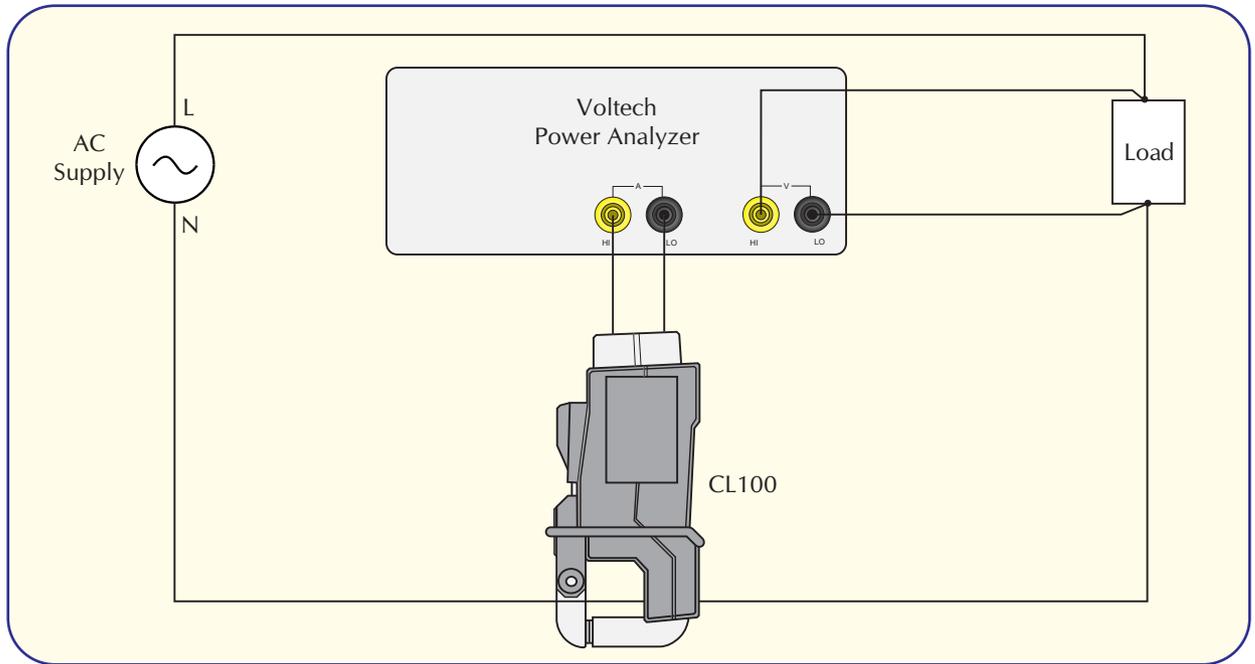


For professional use only. Consult your power analyzer user manual prior to installation and use.

Maximum Working Voltage:	650V
Dielectric Strength:	3kV at 50 / 60Hz for 1 minute
Temperature Range:	Operating: -10°C to $+50^\circ\text{C}$ Storage: -25°C to $+85^\circ\text{C}$

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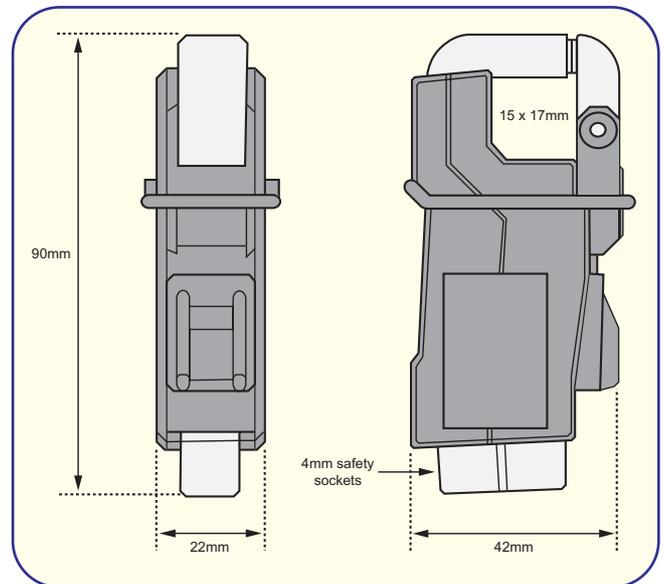
Operation

- Connect the CL100 to your power analyzer as shown in the diagram above.
- To measure currents between 1A and 100A, clamp the CL100 over the current carrying conductor.

When the CL100 is used with a Voltech power analyzer, the analyzer's scaling function can be programmed to automatically scale the measurements by a factor of 100. When used with power analyzers that do not have a scaling facility, measurements such as Arms, Ainst, W and VA should be multiplied by 100.

Note:

To maintain the CL100's accuracy specification, it is important that the magnetic gap between the jaws is kept clean.



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