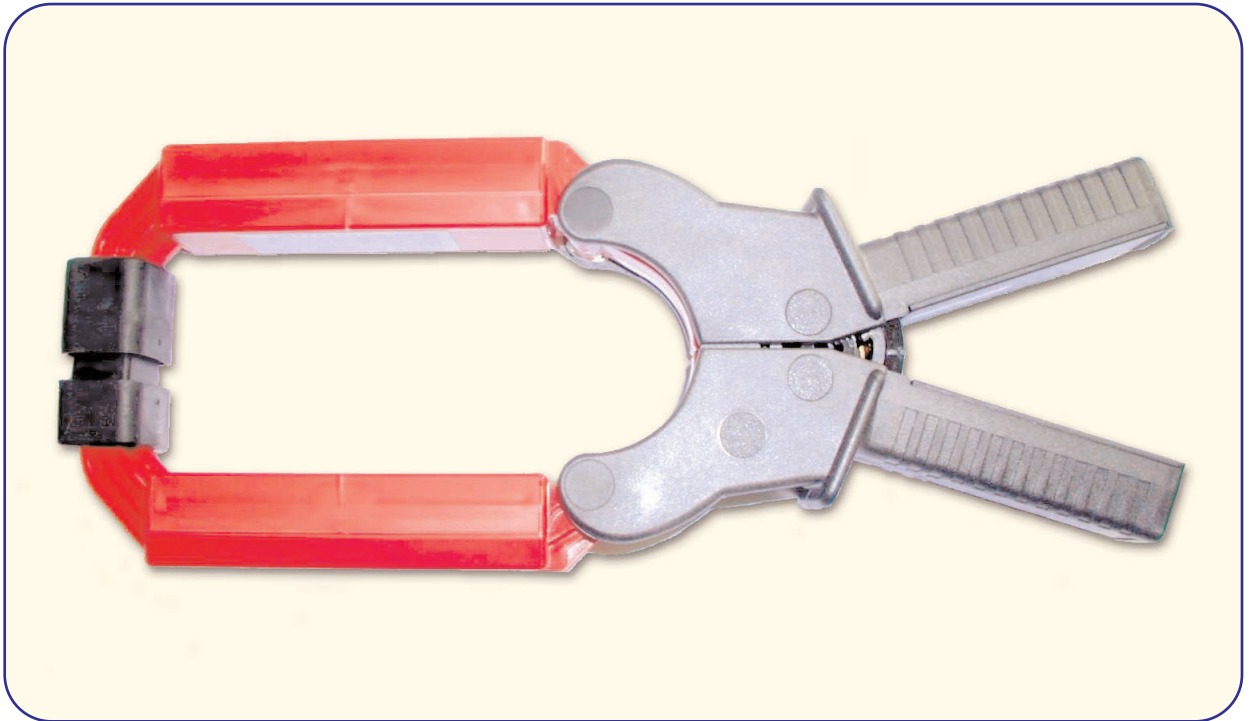


Voltech CL3000 Current Transformer

Clamp-on Transformer for 3000A : 3A AC Current Measurements



The Voltech CL3000 is a clamp-on current transformer that extends the AC current capability of Voltech power analyzers such as the PM100, PM300 or PM3000A to 3000A rms.

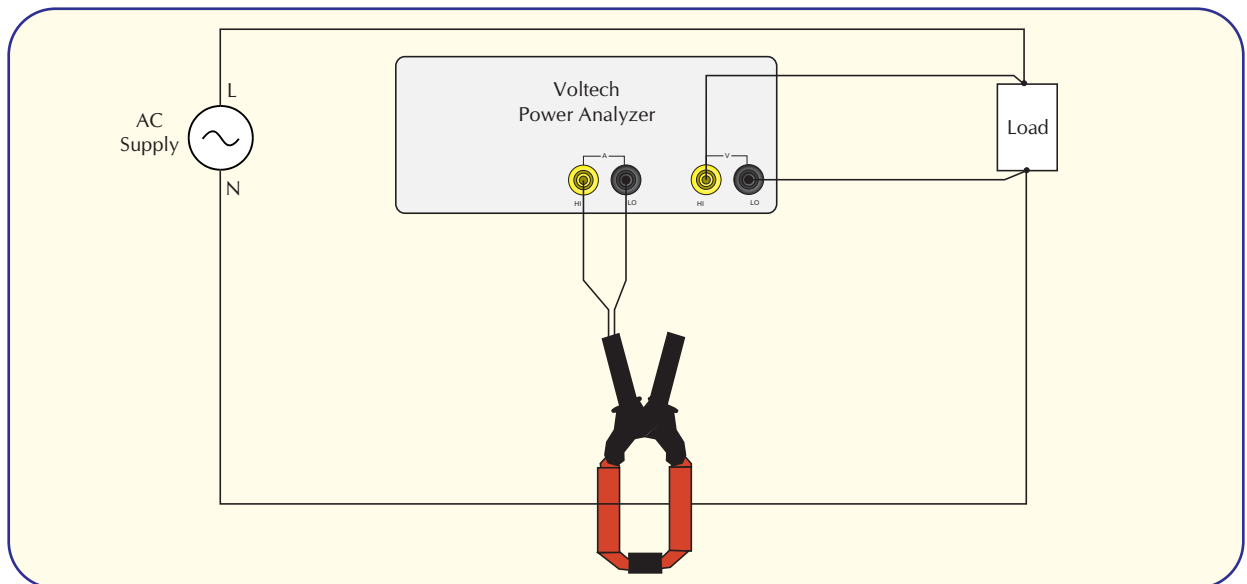
Its close-tolerance turns ratio and carefully controlled magnetic circuit allow the CL3000 transformer to achieve a measurement accuracy of better than 1%, and its robust construction provides a high level of isolation and protection against electrical shock.

Specification

Current Range:	1A to 3600A (2400A continuous)	
Frequency Range:	30Hz to 5kHz	
Accuracy:	3600A $\leq \pm 0.50\%$	Phase $\leq 0.50^\circ$
(23°C \pm 3°C, 48Hz to 65Hz)	600A $\leq \pm 0.75\%$	Phase $\leq 0.75^\circ$
	150A $\leq \pm 1.50\%$	Phase $\leq 1.50^\circ$
Operating Voltage:	600V to earth (non-insulated conductors)	
Safety:	To IEC1010	
Operating Temperature:	-10°C to +50°C	
Weight:	1200g	

CL3000 Current Transformer

Clamp-on Transformer for 3000A : 3A AC Current Measurements



Operation

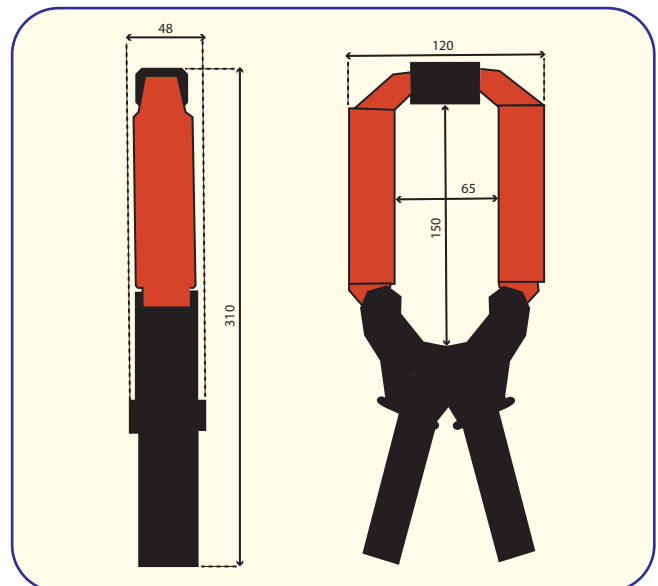
- Connect the CL3000 to your power analyzer as shown in the diagram above.
- To measure currents between 150A and 3600A, clamp the CL3000 over the current carrying conductor.

When the CL3000 is used with a Voltech power analyzer, the analyzer's scaling function can be programmed to automatically scale the measurements by a factor of 1000. When used with power analyzers that do not have a scaling facility, measurements such as Arms, Ainst, W and VA should be multiplied by 1000.

Notes:

The CL3000 can be used to measure currents of less than 50A rms by winding the current carrying conductor several times around the CL3000's core. In this case, measurement readings of the power analyzer should be multiplied by $N/1000$, where N is the number of times the current carrying conductor passes through the center of the CL3000's core.

To maintain the CL3000's accuracy specification, it is important that the magnetic gap between the jaws is kept clean.



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