Voltech Ballast CT

Lighting Ballast Current Transformer

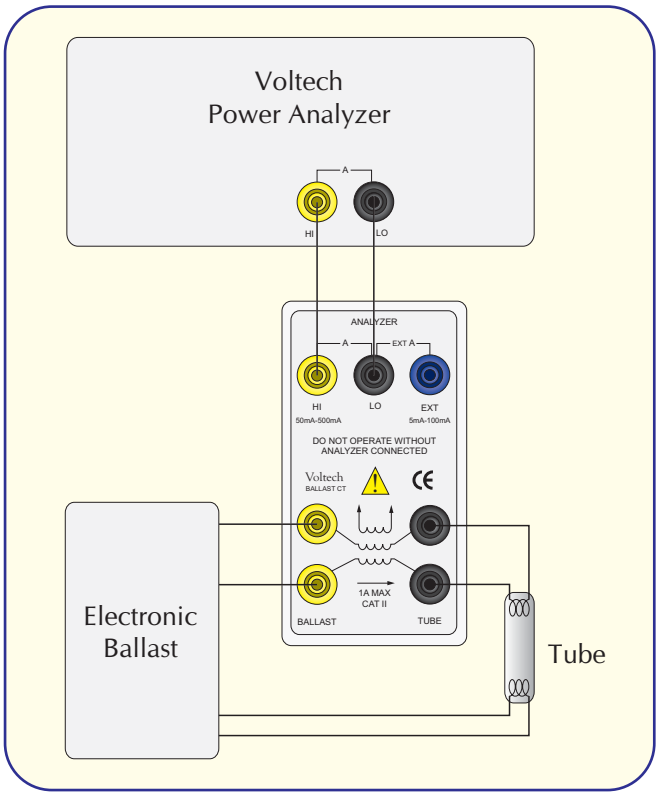
The Voltech Ballast CT simplifies the measurement of output power and tube current in high frequency electronic lighting ballasts.

Purpose designed for lighting applications, this device overcomes problems that are usually found when using conventional or Hall effect current transformers.

Used in conjunction with a Voltech power analyzers, the Ballast CT is a free standing module that provides a convenient and accurate solution to lighting ballast power measurement.

Convenience:	No need to feed cables through a CT core
High Accuracy:	Trifilar wound toroidal core design No cable positioning / contact error
Wide Bandwidth:	High frequency design provides 5kHz to 1MHz bandwidth
Wide Current Range:	5mA to 1A - Measure many tube types with one device
Safety:	Electronic protection for over current Meets EN61010-1 safety standards

Ballast CT



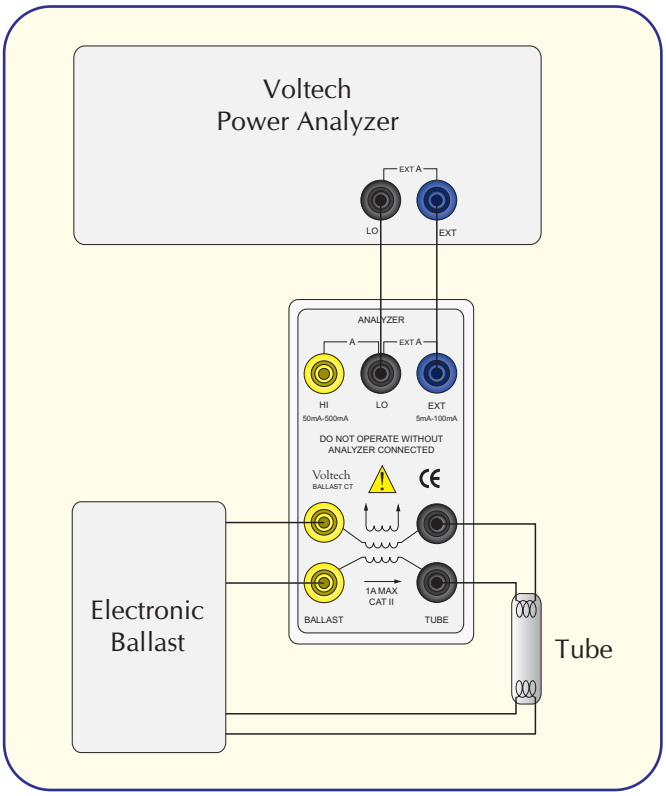
Measuring High Tube Currents

Using your Voltech power analyzer in conjunction with the Voltech Ballast CT, tube currents between 50mA and 1000mA may be measured.

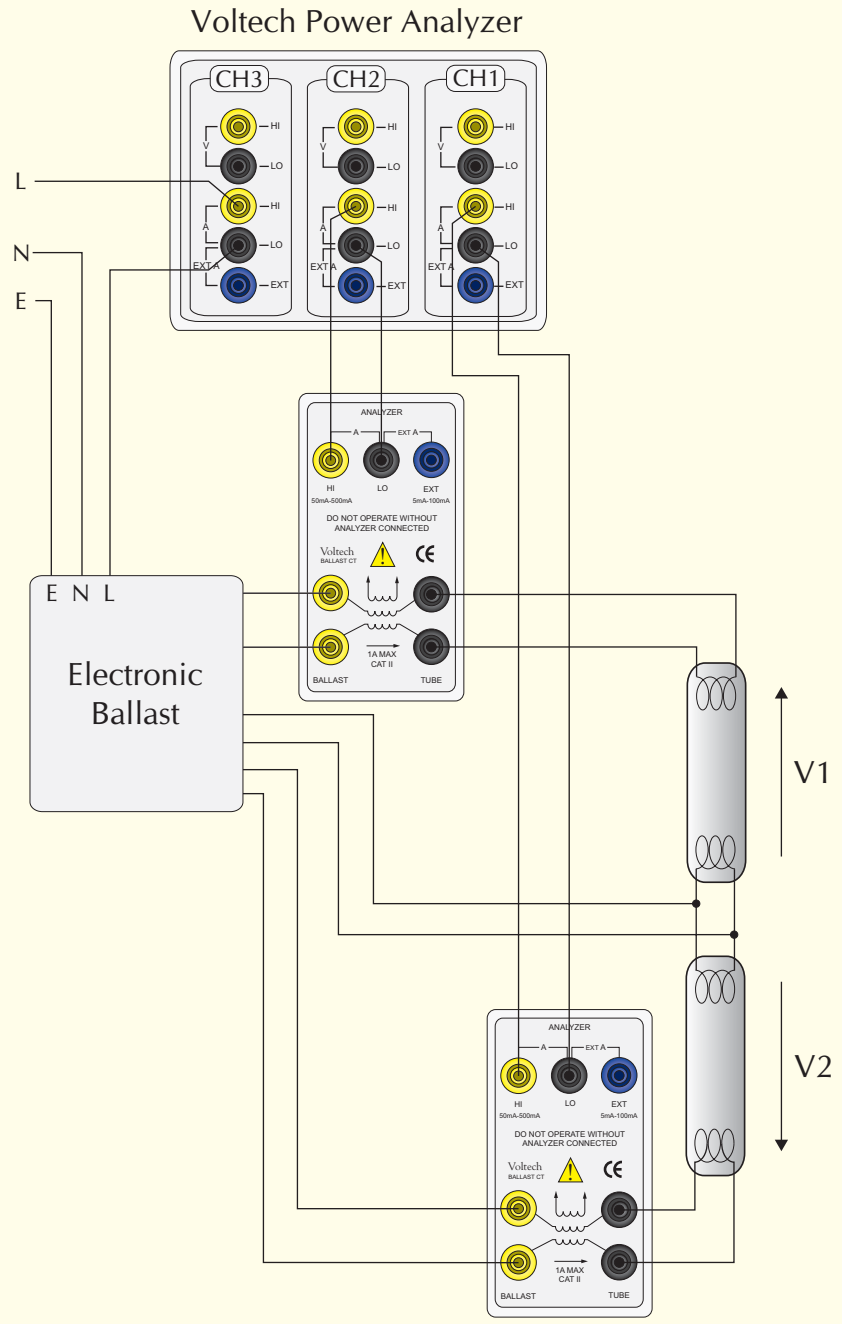
Measuring Low Tube Currents

Where lower currents are flowing, the following configuration will allow readings between 5mA and 100mA.

Voltage output on the low current range increases sensitivity with low power tubes.



Two Tube Fluorescent Lighting Ballast



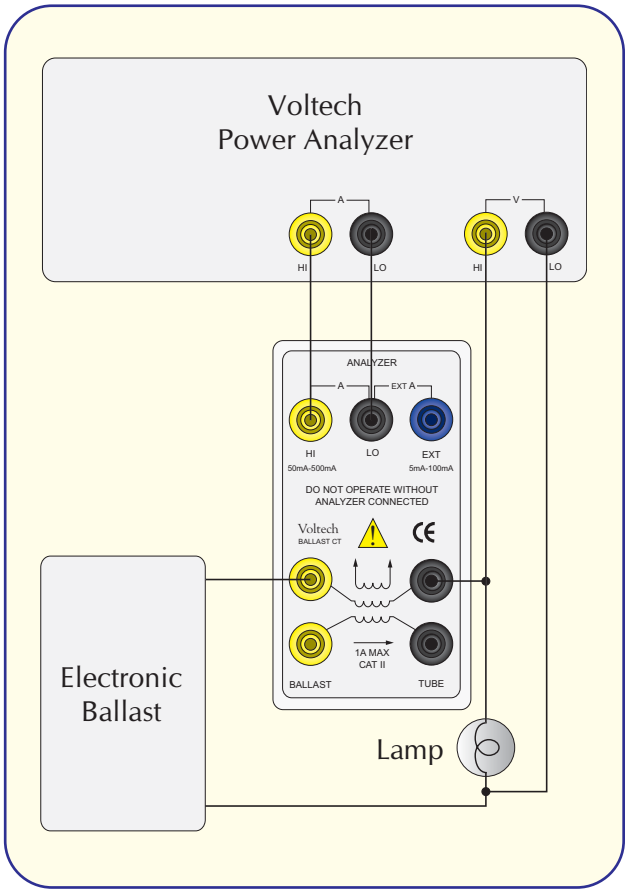
With two current transformers and a three-phase Voltech analyzer, such as the PM3000A, ballast efficiency measurements are simple and accurate.

Ballast CT for Lighting Ballast Power Measurements

Low Voltage Lighting Measurements

The benefits provided by the Voltech Ballast CT of isolating the common mode switching voltages also apply to low-voltage lighting systems.

Please consult your Voltech supplier for more information and help on further applications.



Specification

- 5mA to 1Arms current in two ranges
- 5kHz to 1MHz bandwidth
- Accuracy (20kHz to 500kHz)
  - Amplitude better than 1%
  - Phase (current output) better than 1°
  - Phase (voltage output) better than 3°
- Maximum voltage (ballast / tube to output) - 1000Vpk

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