

Measurement Of Power In Single Phase Circuit By CT, PT & Single Phase Wattmeter



Product Categories: [Electronics](#), [Engineering Equipment](#), [Experimental Setup For Electrical Lab](#), [Experimental Setup For Electrical Lab](#)

Product Page:

<https://www.labappara.com/product/measurement-of-power-in-single-phase-circuit-by-ct-pt-single-phase-wattmeter/>

Product Description

Measurement Of Power In Single Phase Circuit By CT, PT & Single Phase Wattmeter

Power Measurement using CT & PT setup is designed to explore the measurement techniques used in electrical meters for measurement of Voltage, Current, Power etc. Current Transformer (CT) and Potential Transformer (PT) are used to sense Current and Voltage respectively from a transmission line. The various parameters that affect the Current and Voltage sensing using CT and PT are primary and secondary winding turns, gauge of wire and type of core.

The students can measure the Voltage, Current, Wattage and Power Factor. Digital Voltmeter, Ammeter and Wattmeter are provided on panel to increase accuracy of measurement. The meters have very high accuracy and resolution.

The CT is provided on panel so that students can change the turns in primary winding and measure the corresponding changes in secondary winding and change in measurement. Protection circuit is inbuilt.

Product Features

Inbuilt single phase current and voltage source

Inbuilt Current Transformer (CT) & Potential Transformer (PT)

CT can be configured for various turns ratio

Digital meters for accurate result and analysis

Designed by considering all the safety standards

Diagrammatic representation for the ease of connections

Exclusive and Attractive Design: Last

Online product tutorial

Scope of Learning

Study of measure high value of AC Current by a low range AC Ammeter and Current Transformer

Study of measure high value of AC Voltage by a low range AC Voltmeter and Potential Transformer

Study of Measure Power using CT & PT