

Portable AC/DC Wattmeter

Elliott Instruments, UK



- History & Characteristics:
 - Type: Portable laboratory precision dynamometer wattmeter.
 - Purpose: Measures power in AC/DC circuits.
 - Era: Developed late 19th/early 20th centuries by Elliott Brothers.
- Key Features:
 - Dynamometer mechanism (movable/fixed coils).
 - Dual AC/DC functionality.
 - Portable, robust design.
 - Usage: Electrical equipment testing, power monitoring, maintenance.
 - Legacy: Significant historical instrument, replaced by digital devices, but valued for precision.
- Usage Instructions
 - Terminals:
 - Voltage (potential) terminals.
 - Current terminals.
 - Range selectors.
 - AC/DC selector.
 - Safety:
 - De-energize circuit before connecting.
 - Verify wattmeter ratings.
 - Use personal protective equipment.
- Setup:
 - Select AC or DC mode.
 - Start with highest range setting.
 - Connections:
 - Voltage: Connect across load.
 - Current: Connect in series with load.
 - Measurement:
 - Power on circuit.
 - Read scale (watts).
 - Avoid parallax error.
 - Adjust range as needed.
 - Record reading, apply range multiplier if applicable.
- VJTI Legacy:
 - Used in VJTI laboratory since mid-20th century.
 - Trained electrical engineering students.
 - Measures AC and DC power.
 - Retired, now a historical display.

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References:

- <https://www.mhs.ox.ac.uk/exhibits/elliott-brothers/>
- https://americanhistory.si.edu/collections/nmah_904290
- https://www.gracesguide.co.uk/Elliott_Brothers

