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Data Sheet

August 15, 2026

CLARKE-HESS

Clarke-Hess 255 Digital Wattmeter

The Clarke-Hess 255 is a digital wattmeter in the Clarke-Hess Communication Research power-meter family with the 2330 sampling V-A-W meter and 2600 phase meter. OEM 255 listings describe digital true-power measurement for laboratory wattmeter applications. Digital wattmeter measurements of true power on AC loads in the Clarke-Hess power-meter family. Digital wattmeter Clarke-Hess Communication Research line Companion to 2330 V-A-W meter Companion to 2600 phase meter Laboratory true power Benchtop wattmeter Digital wattmeter measurements of true power on AC loads in the Clarke-Hess power-meter family. Digital wattmeter Clarke-Hess Communication Research line Companion to 2330 V-A-W meter Companion to 2600 phase meter Laboratory true power Benchtop wattmeter Literature: Clarke-Hess 255 digital wattmeter listings Family: Clarke-Hess phase and power meters



MODEL

Clarke-Hess 255

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

255

LISTING

<https://aumictechlabs.com/products/255-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Clarke-Hess 255 is a True RMS digital Volt-Ampere-Watt meter designed for precise measurement of AC and DC electrical parameters. It has high accuracy and stability, making it suitable for demanding test and calibration applications where waveform and power factor independence are critical. The instrument is capable of measuring voltage, current, power, and power factor across a wide range of values and frequencies, with features that allow for increased resolution in specific measurement scenarios. Technical Specifications * Measurement

Capabilities: True RMS measurements of Voltage, Current, and Power. Measurements are largely independent of waveform shape and power factor. Frequency Response: * Voltage and Current readings: Typically within 1% up to 400 kHz for sine waves. * Power measurements: Can be within 2% for a 100 kHz square wave. * DC to hundreds of kilohertz. Display: * Four-digit LED display. * Full-scale values of 5000, 2000, and 1000 digits, depending on the function. * Automatic decimal point placement. * LED indicators for: NEGATIVE power/power factor, INPUT OVERLOAD, OUTPUT OVERLOAD, and MILLIWATTS. Ranges: * Current (Full Scale): Four ranges from 5 mA to 5 A. * External shunts or transformers can extend ranges to 50 A or 500 A. * Voltage (Full Scale): Three ranges from 20 V to 1000 V. * External voltage dividers can extend ranges up to 3500 V. * Power (Full Scale): Twelve ranges from 100 mW to 5000 W. * Full-scale power is the product of the full-scale voltage and current ranges. * Power x 10 Ranges: Twelve increased resolution ranges from 10.00 mV to 500.0 W, available when both input voltage and current are less than 40% of their full-scale values. Accuracy: * Voltage and current readings typically within 1% up to 400 kHz (sine waves). * Power measurements within 2% for 100 kHz square waves. * Specific accuracy details vary by function, range, and frequency. For example, for sinusoidal inputs between 30 Hz and 25 kHz: * V.A. (Product of Volts and Amperes): $\pm 0.6\%$ V.A. (30 Hz - 26 kHz), $\pm 1.5\%$ V.A. (25 kHz - 50 kHz), $\pm 2.5\%$ V.A. (50 kHz - 100 kHz). * Power: $\pm 0.7\%$ FS (30 Hz - 26 kHz), $\pm 0.8\%$ FS (25 kHz - 50 kHz), $\pm 1.5\%$ FS (50 kHz - 100 kHz). (FS = Full Scale of the Power range, which is the product of the Current range and Voltage range). Input Impedance: 5 M Ω for voltage terminals. Circuit Loading: Negligible circuit loading due to high input impedance and low voltage drop across current terminals (100 mV full-scale). Peak Input Handling: * Can measure "pulse" or "spike" inputs with peak values up to 3.5 times the full-scale DC level. * Peak-to-peak values around a zero average can be up to seven times the full-scale DC level. Common Terminal Voltage: Up to 250 Vrms (400 V peak) above the grounded case at frequencies up to 600 Hz. Electrical * Power Requirements: * Selectable line voltage operation: 95-105 V, 105-125 V, or 210-240 V. * Line frequency: 50-60 Hz. * Specify line voltage and frequency when ordering. Interfaces and Options * Analog Output (Optional): Optically isolated analog output board providing a 1-volt output for a full-scale display reading of Current, Voltage, or Power. Digital Outputs (Optional): * Parallel, four-digit, isolated BCD output. * IEEE-488 Talker/Listener board. Remote Control (Optional): Provides remote control of functions. Pulse Output (Optional): Isolated pulse output. External Shunt (Optional): For extension of current measurement ranges. External Transformer/Voltage Dividers (Optional): For extension of voltage measurement ranges. Front Panel Fuse (Model 256 only): Current input fuse located on the front panel (Model 255 has an internal fuse). Physical * Construction: Heavy-duty aluminum case. Display Units: Four identical 10.9 mm (0.43 inch) high, seven-segment, high-efficiency LED units. Dimensions: Not specified in available data. Weight: 4.1 kg (9 lbs). Applications The Clarke-Hess 255 is suitable for measuring a wide variety of non-sinusoidal and low power factor w

255 Characteristics / Specifications

PARAMETER	VALUE
Model	255
Instrument Type	Digital wattmeter
Measurement Class	true power
Manufacturer	Clarke-Hess
Literature	Clarke-Hess 255 digital wattmeter listings
Family	Clarke-Hess phase and power meters
Brand Lineage	Clarke-Hess Communication Research
Form Factor	benchtop digital wattmeter
System Role	digital wattmeter
Use Case	laboratory true power
Documentation Type	OEM 255 listing
Year Class	Clarke-Hess 255
Application Class	power metrology
Related Vaw	2330 digital V-A-W meter
Related Phase Meter	2600 broadband phase meter
Vendor Path	Clarke-Hess
Display Class	digital wattmeter
Input Class	voltage and current wattmeter inputs
Documentation Class	OEM 255 catalog
Control Class	benchtop wattmeter
Companion Role	Clarke-Hess power/phase family
Operating Mode	digital true power
Instrument Class	wattmeter
Power Class	laboratory wattmeter
Meter Class	digital

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications	
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Notes

From Clarke-Hess 255 digital wattmeter listings (digital wattmeter in the family with 2330/2600).
Voltage/current ranges and accuracy are on the 255 specification page.

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

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NIST-traceable calibration · SAM registered ·
30-day returns
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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.