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Data Sheet

August 15, 2026

CLARKE-HESS

Clarke-Hess 2330 Digital V-A-W Meter

The Clarke-Hess 2330 is a precision auto-ranging sampling volt-ampere-watt meter. OEM 2330 listings specify simultaneous true-rms voltage, true-rms current, and true-mean power from DC to more than 600 kHz. Full-scale current and voltage are typically within $\pm 0.1\%$ of reading in amplitude to at least 400 kHz. Power is typically within $\pm 0.1\%$ of input volt-amperes to 200 kHz and $\pm 0.2\%$ of input VA to 400 kHz for loads of any power factor. The meter also measures peak voltage, peak current, and frequency, and calculates VA, power factor, and energy over 1–99 hours. Voltage and current are simultaneously sampled at 16-bit resolution and sent over optical links so inputs are isolated from each other and from the mainframe. IEEE-488.2 is standard. Broadband true-rms V/A/W, power-factor, and energy measurements on power converters, ballasts, and HF loads to 600 kHz. Calculated Functions: volt-ampere product, power factor, energy Interface: IEEE-488.2 with common commands and queries Calibration: internal software calibration routines Literature: Clarke-Hess 2330 sampling watt meter data sheet



MODEL

Clarke-Hess 2330

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

2330

LISTING

<https://aumictechlabs.com/products/2330-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Clarke-Hess 2330 Sampling V-A-W Meter is a precision, high-accuracy, auto-ranging instrument designed for comprehensive electrical measurements. It simultaneously captures true RMS voltage, true RMS current, and mean power across a wide frequency range, from DC to over

600 kHz. This meter is engineered for demanding applications in testing, calibration, and analysis of electrical equipment in laboratory and industrial environments. Its design emphasizes broad bandwidth and accuracy, enabling reliable measurements of both sinusoidal and highly distorted waveforms.

Technical Specifications

Measurement Capabilities

Simultaneous Measurements: True RMS Voltage, True RMS Current, Mean Power.

Additional Calculations: Volt-Ampere product, Power Factor, Energy accumulated over time (1-99 hours).

Peak Measurements: Peak Voltage, Peak Current.

Frequency Measurement: Yes.

Electrical Specifications

Frequency Range: DC to > 600 kHz.

Voltage Measurement Accuracy: * Typically within $\pm 0.1\%$ of reading up to 400 kHz. * Typically within $\pm 0.40\%$ of reading ± 40 digits from 400 kHz to 600 kHz.

Current Measurement Accuracy: * Typically within $\pm 0.1\%$ of reading up to 400 kHz. * The 5000mA range is specified to only 400 kHz. * Typically within $\pm 0.40\%$ of reading ± 40 digits from 400 kHz to 600 kHz.

Power Measurement Accuracy: * Typically within $\pm 0.1\%$ of input Volt-Amperes up to 200 kHz (for loads of any Power Factor). * Typically within $\pm 0.2\%$ of input Volt-Amperes up to 400 kHz (for loads of any Power Factor).

Power Factor Accuracy: * Range: 0 to ± 1.0000 . * Resolution: 0.0001 for Volt-Ampere products > 7.5% of Full Scale. * Uncertainty: $\pm 0.001 \pm 10$ digits up to 200 kHz. * Uncertainty: $\pm 0.002 \pm 20$ digits from 200 kHz to 400 kHz.

Frequency Measurement Accuracy: ± 100 ppm ± 1 digit from 5.0000 Hz to 640.00 kHz.

Crest Factor: Up to three for full-scale current and voltage inputs; higher for smaller inputs.

Input Scaling: Sinusoidal inputs with RMS values of twice the nominal full-scale value can be measured with no loss in accuracy.

Ranges Power: * Full scale ranges from 1.0000 mW to 10,000 W. * Upper range extendable by a factor of ten or one hundred with external shunts or current-to-voltage transducers. * Full scale power ranges exist for load impedances from 0.4 W to 400 kW.

Voltage: * Full scale ranges from 2.000 V to 2000 V (usable up to 600 V).

Current: * Full scale ranges from 5.000 mA to 5.000 A (all RMS values).

Interfaces

Digital Interface: IEEE-488.2 (GPIB) for remote control and data reading.

Physical Characteristics

Display: Three LED displays (10.9mm / 0.43 inch high). * Two four-digit displays for Current and Voltage. * One six-digit display for Power and other functions.

Construction: All solid-state instrument with optically isolated input channels. Integrated circuits are in sockets.

Operating Temperature: 0°C to 40°C.

Storage Temperature: 18°C to 25°C (within specifications).

Compatibility

Waveforms: Suitable for both sinusoidal and highly distorted wave shapes.

DC Coupling: Both channels feature DC coupling, allowing for calibration and verification with high accuracy DC sources.

Calibration and Maintenance

Calibration: Internal software calibration routines facilitate recalibration without screwdriver adjustments. DC coupling allows for calibration with DC sources.

Maintenance: All integrated circuits are in sockets for ease of maintenance.

Why Choose Aumictech for Clarke-Hess 2330 V-A-W Meter? At Aumictech, we specialize in supplying high-end electrical test and measurement equipment. Whether you need precise V-A-W measurements, broad frequency response, or reliable performance for complex waveform analysis, our team ensures the Clarke-Hess 2330 V-A-W Meter delivers maximum performance for your application.

2330 Characteristics / Specifications

PARAMETER	VALUE
Model	2330
Instrument Type	Digital volt ampere watt meter
Frequency Range	DC to more than 600 kHz
Voltage Current Amplitude	typically within ± 0.1 % of reading to at least 400 kHz
Power Accuracy To 200 Khz	typically within ± 0.1 % of input volt-amperes, any power factor
Power Accuracy To 400 Khz	typically within ± 0.2 % of input volt-amperes, any power factor
Sampling	simultaneous 16 bit voltage and current sampling
Isolation	optical links isolate voltage and current inputs from each other and from the mainframe
Measured Functions	true rms voltage, true rms current, true mean power, peak voltage, peak current, frequency
Calculated Functions	volt-ampere product, power factor, energy
Energy Period	1 to 99 hours
Interface	IEEE-488.2 with common commands and queries
Calibration	internal software calibration routines
Manufacturer	Clarke-Hess
Literature	Clarke-Hess 2330 sampling watt meter data sheet
Family	Clarke-Hess 2300 V-A-W meters
Brand Lineage	Clarke-Hess Communication Research
Form Factor	benchtop sampling wattmeter
System Role	broadband V-A-W meter
Use Case	HF true power measurement
Documentation Type	OEM 2330 data sheet
Year Class	2330 sampling wattmeter
Application Class	power metrology
Display Class	simultaneous V, A, W

PARAMETER	VALUE
Remote Class	IEEE-488.2
Vendor Path	Clarke-Hess
Sampling Class	asynchronous sampling to avoid beats with input harmonics

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 2330 data sheet listings (DC->600 kHz, ± 0.1 % class to 400 kHz, 16-bit optical isolation, IEEE-488.2, energy 1-99 h). Full-scale range table (4 W class to 400 kW class) is on the 2330 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

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NIST-traceable calibration · SAM registered ·
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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.