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Data Sheet

August 13, 2026

YOKOGAWA

Yokogawa 2534 digital power meter

The Yokogawa 2534 is a compact digital power meter for high-accuracy wideband DC and AC power measurement from 10 Hz to 20 kHz using simultaneous voltage/current sampling to eliminate timing skew. DC and low-to-mid frequency power measurement; capacitor and transformer loss testing; high-accuracy DC current/power with internal shunts; data logging to IC memory card. Measurement Method: simultaneous sample-and-hold voltage and current DC Current Accuracy: enhanced via high-performance shunt resistors Voltage Measurement: standard ranges per 2534 manual Current Measurement: direct and external shunt range



MODEL

Yokogawa 2534

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

2534

LISTING

<https://aumictechlabs.com/products/2534-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Yokogawa 2534 is a precision digital power meter engineered for accurate electrical measurements across DC and AC frequencies up to 20 kHz. It delivers simultaneous sampling of voltage and current with minimal timing skew, enabling engineers and laboratories to analyze active power, reactive power, apparent power, power factor, phase angle, and integrated energy with confidence across diverse testing applications. Technical Specifications Measurement Range & Parameters Voltage (RMS): 15/30/60/150/300/600 V Current (RMS, direct input): 0.5/1/2/5/10/20 A Current (external input): 2.5/5/10 V or 50/100/200 mV options External shunt input: Peak voltage up to 5 V max (1 V max for lower voltage range); peak current 50 A, RMS 30 A, or 3× range (whichever is lower) Frequency range: DC and 10 Hz to 20 kHz; frequency measurement extends

to 50 kHz Crest factor: 3 at rated input Instantaneous maximum: 2.8 kV peak or 2.0 kV RMS (voltage); 450 A peak or 300 A RMS (current) Accuracy Frequency measurement: $\pm(0.1\%$ of reading + 1 digit) Power factor zero (45 Hz to 66 Hz, up to 50 kHz): $\pm 0.25\%$ of range DC current/power (0.5/1 A range): Additional $\pm 0.2\%$ of range Reference conditions: $23 \pm 5^\circ\text{C}$ ambient, 30–75% R.H., $\pm 5\%$ supply voltage, sine wave input, 0 V DC common mode, filter ON (≤ 200 Hz) Input Impedance Voltage: $2\text{ M}\Omega$ (approximately 13 pF input capacitance) Current (direct): $6\text{ m}\Omega + 0.1\text{ }\mu\text{H}$ Current (external 2.5/5/10 V): $100\text{ k}\Omega$ Current (external 50/100/200 mV): $20\text{ k}\Omega$ Key Features High-speed simultaneous sampling with A/D conversion minimizes measurement skew Integrated power measurement in watt-hours (Wh) Phase angle and reactive power determination Selectable input ranges for voltage and current measurement Enhanced DC measurement accuracy via precision shunt resistorsTypical Applications Power analysis in manufacturing test environments, motor efficiency validation, power supply characterization, and harmonic content analysis in industrial control systems.Compatibility & Integration Accepts direct analog inputs and optional external shunt configurations for flexible integration into automated test benches and laboratory measurement systems.

Features & description

From manufacturer datasheet

Features

- DC to 10 Hz to 20 kHz frequency range

2534 Characteristics / Specifications

PARAMETER	VALUE
Model	2534
Manufacturer	Yokogawa
Instrument Type	Digital Power Meter
Frequency Range	DC, 10 Hz to 20 kHz
Measurement Method	simultaneous sample-and-hold voltage and current
DC Current Accuracy	enhanced via high-performance shunt resistors
Voltage Measurement	standard ranges per 2534 manual
Current Measurement	direct and external shunt range
Computed Quantities	active, apparent, reactive power; power factor; phase angle; frequency; integrated power
Data Storage	IC memory card store and recall
Analog Output	selectable single parameter output with scaling
External Transformer Scaling	PT/CT and external shunt scaling functions
Interfaces	GP-IB optional; RS-232-C optional
Display	digital measured and computed values
Accuracy	high-accuracy class per 2534 specification
Crest Factor	per range (see manual)
Operating Temperature	per Yokogawa 2534 manual
Alias	2534
Integration Function	watt-hour and energy integration
Memory Card	IC card data logging
Scaling Functions	external PT/CT and shunt scaling
Phase Angle Display	yes
Power Factor Display	yes

PARAMETER

VALUE

Frequency Measurement

yes Notes Compact bench power meter with simultaneous sampling architecture. Confirm installed communication option (GP-IB vs RS-232-C).

2534 Specifications

PARAMETER	VALUE
Yokogawa 2534 Digital Power Meter	Overview
Key Features	- DC to 10 Hz to 20 kHz frequency range
Technical Specifications	Model: 2534
Notes	Compact bench power meter with simultaneous sampling architecture. Confirm installed communication option (GP-IB vs RS-232-C).

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	per Yokogawa 2534 manual
Operating Temperature	per Yokogawa 2534 manual
Alias	2534
Integration Function	watt-hour and energy integration
Memory Card	IC card data logging
Scaling Functions	external PT/CT and shunt scaling
Phase Angle Display	yes
Power Factor Display	yes
Frequency Measurement	yes Notes Compact bench power meter with simultaneous sampling architecture. Confirm installed communication option (GP-IB vs RS-232-C).

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.

performance shunt resistors for DC current accuracy

- Computes P, S, Q, PF, phase, frequency, integrated energy
- GP-IB or RS-232-C optional

Technical Specifications

Technical Specifications

PARAMETER	VALUE
Model	2534
Manufacturer	Yokogawa
Instrument Type	Digital Power Meter

Specifications

PARAMETER	VALUE
Frequency Range	DC, 10 Hz to 20 kHz
Measurement Method	simultaneous sample-and-hold voltage and current
DC Current Accuracy	enhanced via high-performance shunt resistors

Specifications

PARAMETER	VALUE
Voltage Measurement	standard ranges per 2534 manual
Current Measurement	direct and external shunt range
Computed Quantities	active, apparent, reactive power; power factor; phase angle; frequency; integrated power

Specifications

PARAMETER	VALUE
Data Storage	IC memory card store and recall
Analog Output	selectable single parameter output with scaling
External Transformer Scaling	PT/CT and external shunt scaling functions

Specifications

PARAMETER	VALUE
Interfaces	GP-IB optional; RS-232-C optional

PARAMETER	VALUE
Display	digital measured and computed values
Accuracy	high-accuracy class per 2534 specification

Specifications

PARAMETER	VALUE
Crest Factor	per range (see manual)
Operating Temperature	per Yokogawa 2534 manual
Alias	2534

Specifications

PARAMETER	VALUE
Integration Function	watt-hour and energy integration
Memory Card	IC card data logging
Scaling Functions	external PT/CT and shunt scaling

Specifications

PARAMETER	VALUE
Phase Angle Display	yes
Power Factor Display	yes
Frequency Measurement	yes

Notes

Compact bench power meter with simultaneous sampling architecture. Confirm installed communication option (GP-IB vs RS-232-C).

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 ·
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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.