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Data Sheet
August 13, 2026

YOKOGAWA

Yokogawa 2531 - Power Meters

Yokogawa 2531 Digital Power Meter (253110 to 253130) The Yokogawa 2531 isadiscontinued digital power meter family (253110 to 253130 suffix codes) for precision AC/DC power measurement predating the WT5000 class instruments. Laboratory and production power measurement; calibration reference for legacy installations; three-phase and single-phase power analysis where 2531 remains deployed. The Yokogawa 2531 isadiscontinued digital power meter family (253110 to 253130 suffix codes) for precision AC/DC power measurement predating the WT5000 class instruments. Laboratory and production power measurement; calibration reference for legacy installations; three-phase and single-phase power analysis where 2531 remains deployed.

MODEL Yokogawa 2531	CALIBRATION Available on request
CONDITION Used	STATUS In stock
RFQ / SKU 2531	LISTING https://aumictechlabs.com/products/2531-2/

NIST-traceable cal · SAM registered · 30-day returns · NAICS 423690 · 811210 · 541380

This unit

The Yokogawa 2531 is a digital power meter engineered for precise electrical signal measurement across DC and AC frequencies. It employs a 16-bit A/D converter with a 32-bit high-speed computation DSP to deliver power accuracy of ±0.04% of reading plus ±0.04% of range. The instrument samples 36 data items per 250 ms, enabling real-time power analysis and efficiency characterization in industrial test and calibration environments.Technical Specifications Power Accuracy: ±0.04% of reading + ±0.04% of range Bandwidth: DC, 2 Hz to 500 kHz Direct Input: Maximum 30 A, 600 V A/D Conversion: 16-bit digital sampling technology Signal Processing: 32-

bit high-speed computation DSP Control Architecture: 8-bit ARM Cortex-M3 processor Measurement Rate: 36 data items per 250 ms Noise and Common-Mode Voltage Rejection: ExcellentKey Features High-resolution digital sampling architecture minimizes measurement error in both voltage and current channels Wideband operation from DC through 500 kHz supports analysis of PWM-modulated and harmonic-rich signals Direct measurement capability to 30 A and 600 V eliminates external transducer dependency Fast computation throughput enables transient capture and dynamic efficiency profiling Superior common-mode and noise rejection ensures signal integrity in noisy industrial settingsTypical Applications PWM inverter efficiency characterization Power factor and harmonic analysis across industrial frequencies Electrical signal monitoring in wide frequency ranges Precision calibration and validation testingCompatibility & Integration The 2531 integrates local control and data storage via its ARM Cortex-M3 processor, supporting standalone operation or integration into larger test benches. Its direct input architecture and wideband response make it suitable for measurement chains requiring high accuracy without intermediate conditioning stages.

Features & description

From manufacturer datasheet

Features

- Digital power measurement with simultaneous computed quantities

2531 Characteristics / Specifications

PARAMETER	VALUE
Model	2531 (253110 to 253130)
Manufacturer	Yokogawa
Instrument Type	Digital Power Meter
Product Line	2531 series
Suffix Range	253110 to 253130
Configuration	suffix dependent (single/ multi phase)
Measurement Type	voltage, current, active power, apparent power, reactive power, power factor, frequency
Accuracy Class	per 2531 OEM documentation for installed suffix
Frequency Range	DC to 30 kHz class (suffix dependent)
Voltage Range	per suffix (typically up to 600 V class)
Current Range	per suffix (typically up to 20 A class)
Crest Factor	per 2531 specification
Display	digital simultaneous values
IEEE 488 Interface	optional or standard per suffix
Analog Output	optional per suffix
Operating Temperature	per Yokogawa 2531 manual
Discontinued Date	September 1996
Replacement Product	WT5000 Precision Power Analyzer
Alias	2531; 253110; 253130
Measurement Functions	integrated power and computed quantities
Form Factor	bench/rack digital power meter
Power Supply	per 2531 suffix manual
Weight	per 2531 suffix manual
Analog Scaling	PT/CT scaling (suffix dependent) Notes 2531 discontinued 1996. Confirm exact suffix (253110 to 253130) on nameplate for range and

PARAMETER	VALUE
	interface options. Sparse public tables–verify against unit manual or calibration certificate.

General Specifications & Supplementary Characteristics

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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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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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