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Data Sheet

August 13, 2026

YOKOGAWA

Yokogawa PZ4000 Power Analyzer

Yokogawa PZ4000 Power Analyzer (Model 253710) The Yokogawa PZ4000 (mainframe 253710) is a waveform-capable power analyzer with DC to 2 MHz bandwidth and 5 MS/s 12-bit simultaneous voltage/current sampling. Basic accuracy at 50/60 Hz is plus/minus (0.1 percent of reading + 0.025 percent of range) in Yokogawa technical reports, with the bulletin table stating plus/minus (0.1 percent of reading + 0.05 percent of range) at 45 Hz to 1 kHz under stated conditions. Up to four plug-in power modules (253751 5 A or 253752 5 A/20 A) plus an optional 253771 motor module support transient power, 500th-order harmonics, and FFT to 2.5 MHz. The Yokogawa PZ4000 (mainframe 253710) is a waveform-capable power analyzer with DC to 2 MHz bandwidth and 5 MS/s 12-bit simultaneous voltage/current sampling. Basic accuracy at 50/60 Hz is plus/minus (0.1 percent of reading + 0.025 percent of range) in Yokogawa technical reports, with the bulletin table stating plus/minus (0.1 percent of reading + 0.05 percent of range) at 45 Hz to 1 kHz under stated conditions. Up to four plug-in power modules (253751 5 A or 253752 5 A/20 A) plus an optional 253771 motor module support transient power, 500th-order harmonics, and FFT to 2.5 MHz. Inverter and electronic-ballast power including fluorescent lamp current via delta computation; switching-loss and high-frequency lighting; motor efficiency with the 253771 sensor mod



MODEL Yokogawa PZ4000	CALIBRATION Available on request
CONDITION Used	STATUS In stock
RFQ / SKU PZ4000	LISTING https://aumictechlabs.com/products/pz4000-2/

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Yokogawa PZ4000 Power Analyzer is a precision instrument for comprehensive electrical power measurement and analysis in research and development of energy-efficient products. It delivers high-speed sampling at 5 MS/s, detailed waveform capture, and harmonic analysis up to the 500th order, making it ideal for characterizing high-frequency power electronics and devices with complex waveforms.

Technical Specifications

Measurement Ranges and Accuracy

Voltage: 30–2000 Vpk direct input (maximum 1000 Vrms) Current: 0.1–100 Apk depending on module configuration (maximum 20 Arms with 253752 module) Frequency bandwidth: DC to 2 MHz Sampling rate: 5 MS/s maximum Basic accuracy at 50/60 Hz: $\pm 0.1\%$ of reading + 0.025% of range (voltage/current and power); $\pm 0.5\%$ of S reading for power factor efficiency Analysis and Signal Processing Harmonic analysis capability to 500th order Fast Fourier Transform analysis up to 2.5 MHz Waveform capture and display with instantaneous power calculations Delta computation for fluorescent lamp ballast current measurement Vector display for 3-phase load balance assessment Motor evaluation with optional sensor module (253771): torque, speed, mechanical power, efficiency, synchronous speed, and slip Memory and Display Acquisition memory: 4 Mega Words per channel (expandable to 4 M word/CH) Color LCD: displays up to 64 measurement values and 10 waveforms simultaneously Data storage via floppy disk drive with optional SCSI interface for external media (HDD, MO, ZIP, PD)

Key Features

Modular mainframe accommodates up to 4 plug-in power modules Synchronized multi-unit operation: Master-Slave configuration supports 8 channels with ± 3 microsecond timing alignment Multiple current input options: direct measurement, current sensor input (100–1000 mVpk), or 253751/253752 modules

Typical Applications

Power electronics R&D and device characterization Motor efficiency and mechanical parameter measurement Harmonic distortion and power quality analysis Fluorescent lighting ballast evaluation 3-phase system load balancing assessment

Compatibility & Integration

Standard interfaces: GPIB, RS232-C, Centronics printer port Optional SCSI interface for data export External I/O connector for synchronized measurements and system control

PZ4000 Characteristics / Specifications

PARAMETER	VALUE
Model	PZ4000 (253710 mainframe)
Manufacturer	Yokogawa
Instrument Type	Power analyzer
Alias	PZ4000; 253710; Yokogawa 253710
Measurement Bandwidth	DC to 2 MHz
Maximum Sample Rate	5 MS/s
ADC Resolution	12 bit simultaneous voltage and current
Basic Accuracy 50/60 Hz Report	plus/minus (0.1 percent of reading + 0.025 percent of range)
Voltage Current Accuracy 45 Hz to 1 kHz	plus/minus (0.1 percent of reading + 0.05 percent of range) (bulletin conditions)
Voltage Peak Ranges	30, 60, 120, 200, 300, 600, 1200, 2000 Vpk (1000 Vrms)
Current Direct 5 A Module	0.1, 0.2, 0.4, 1, 2, 4, 10 Apk (5 Arms) on 253751
Current Direct 20 A Module	1, 2, 4, 10, 20, 40, 100 Apk (20 Arms) lower terminal on 253752
Current Sensor Ranges	0.1, 0.2, 0.4, 1 Vpk (500 mVrms)
Input Slots	4 plug-in
Power Modules	253751 (1000 V / 5 A / sensor 500 mV); 253752 (1000 V / 5 A and 20 A / sensor 500 mV)
Motor Module	253771, 2-channel torque/speed analog 1/2/5/10/20/50 Vpk
Line Filter Cutoffs	OFF, 500 Hz, 20 kHz, 1 MHz
Zero Cross Filter Cutoffs	OFF, 500 Hz, 20 kHz
Standard Memory	100 kword per channel
Memory Option M	1 Mword per channel
Observation Time Range	10 us to 1000 s (1-2-4 steps)
Max Sample Duration Standard	20 ms at 5 MS/s with 100 kword
Max Sample Duration M	400 ms at 5 MS/s with 4 Mword
Harmonic Analysis Order	up to 500th

PARAMETER	VALUE
Harmonic Fundamental Range	20 Hz to 6.4 kHz
FFT Analysis Range	up to 2.5 MHz
Display	6.4 inch color TFT LCD
Common Mode Rejection 10 Hz to 1 kHz	plus/minus 0.005 percent of range or less (600 Vrms, stated conditions)
Insulation Resistance	50 MOhm or greater at 500 V DC
Withstand Voltage Case to Plug	1500 V for 1 minute at 50/60 Hz
Withstand Voltage Inputs to Case	2200 V for 1 minute at 50/60 Hz
Mains	100 to 120 Vac / 200 to 240 Vac (no switch), 50/60 Hz
Allowed Mains Voltage	90 to 132 Vac, 180 to 264 Vac
Allowed Mains Frequency	48 to 63 Hz
Power Consumption	about 200 VA (with printer)
Dimensions	about 426 mmWx 177 mmHx 450 mmDWeight: about 15 kg (mainframe with four 253752 modules)
Operating Temperature Humidity	per bulletin (store at 40 C or less to hold accuracy)
Accuracy Conditions	23 C plus/minus 3 C, 50 percent plus/minus 10 percent RH, PF = 1, after warm-up Notes Specs from Yokogawa PZ4000 bulletin (2537-00E class) and IM 253710-01E specification chapter. Confirm installed modules (253751 vs 253752 vs 253771) and memory option (/M1 or /M3). The 0.1%+0.025% figure is from Yokogawa's technical-report summary; use the bulletin frequency table for calibration limits.
Bandwidth	and 5 MS/s 12-bit simultaneous voltage/current sampling. Basic accuracy at 50/60 Hz is plus/minus (0.1 percent of reading + 0.025 percent of range) in Yokogawa technical reports, with the bulletin table stating plus/minus (0.1 percent of reading + 0.
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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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Insulation Resistance	50 MOhm or greater at 500 V DC
Withstand Voltage Case to Plug	1500 V for 1 minute at 50/60 Hz
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Mains	100 to 120 Vac / 200 to 240 Vac (no switch), 50/60 Hz
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Model	PZ4000 (253710 mainframe)
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Instrument Type	Power analyzer
Alias	PZ4000; 253710; Yokogawa 253710
Measurement Bandwidth	DC to 2 MHz
Maximum Sample Rate	5 MS/s
ADC Resolution	12 bit simultaneous voltage and current
Basic Accuracy 50/60 Hz Report	plus/minus (0.1 percent of reading + 0.025 percent of range)
Voltage Current Accuracy 45 Hz to 1 kHz: plus/minus (0.1 percent of reading + 0.05 percent of range) (bulletin conditions)	
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Voltage Peak Ranges	30, 60, 120, 200, 300, 600, 1200, 2000 Vpk (1000 Vrms)
Current Direct 5 A Module	0.1, 0.2, 0.4, 1, 2, 4, 10 Apk (5 Arms) on 253751
Current Direct 20 A Module	1, 2, 4, 10, 20, 40, 100 Apk (20 Arms) lower terminal on 253752
Current Sensor Ranges	0.1, 0.2, 0.4, 1 Vpk (500 mVrms)
Input Slots	4 plug-in
Power Modules	253751 (1000 V / 5 A / sensor 500 mV); 253752 (1000 V / 5 A and 20 A / sensor 500 mV)
Motor Module	253771, 2-channel torque/speed analog 1/2/5/10/20/50 Vpk
Line Filter Cutoffs	OFF, 500 Hz, 20 kHz, 1 MHz
Zero Cross Filter Cutoffs	OFF, 500 Hz, 20 kHz
Standard Memory	100 kword per channel
Memory Option M1	1 Mword per channel
Memory Option M3	4 Mword per channel
Observation Time Range	10 us to 1000 s (1-2-4 steps)
Max Sample Duration Standard	20 ms at 5 MS/s with 100 kword
Max Sample Duration M3	400 ms at 5 MS/s with 4 Mword
Harmonic Analysis Order	up to 500th
Harmonic Fundamental Range	20 Hz to 6.4 kHz
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Display	6.4 inch color TFT LCD

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Notes

Specs from Yokogawa PZ4000 bulletin (2537-00E class) and IM 253710-01E specification chapter. Confirm installed modules (253751 vs 253752 vs 253771) and memory option (/M1 or /M3). The 0.1%+0.025% figure is from Yokogawa's technical-report summary; use the bulletin frequency table for calibration limits.

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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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.