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Data Sheet

August 12, 2026

YOKOGAWA

Yokogawa WT3004E Precision Power Analyzer

Yokogawa WT3004E Precision Power Analyzer (WT3000E Series) The Yokogawa WT3004E is the four-input-element model of the discontinued WT3000E high-accuracy precision power analyzer family. It is a reference-class instrument for efficiency measurement and power-meter calibration with basic power accuracy $\pm(0.01\%$ of reading + 0.03% of range), bandwidth DC and 0.1 Hz–1 MHz, and mixable 2 A / 30 A input elements. Solar inverter and motor-drive efficiency; UPS/lighting/transformer testing; aircraft power systems; IEC harmonic and flicker compliance (with options); in-house calibration reference for lower-accuracy power meters. The Yokogawa WT3004E is the four-input-element model of the discontinued WT3000E high-accuracy precision power analyzer family. It is a reference-class instrument for efficiency measurement and power-meter calibration with basic power accuracy $\pm(0.01\%$ of reading + 0.03% of range), bandwidth DC and 0.1 Hz–1 MHz, and mixable 2 A / 30 A input elements. Solar inverter and motor-drive efficiency; UPS/lighting/transformer testing; aircraft power systems; IEC harmonic and flicker compliance (with options); in-house calibration reference for lower-accuracy power meters.



MODEL

**Yokogawa
WT3004E**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

WT3004E

LISTING

<https://aumictechlabs.com/products/wt3004e-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Yokogawa WT3004E is a 4-channel precision power analyzer designed for high-accuracy measurement of electrical power parameters in power electronic devices, supplies, inverters, and demanding power applications. It delivers simultaneous voltage, current, and power measurement with $\pm 0.2\%$ reading accuracy and $\pm 0.1\%$ range accuracy across DC to 100 kHz. The instrument integrates harmonic analysis to the 50th order, energy integration functions, and a color LCD display for comprehensive power characterization across development, testing, and evaluation workflows.

Technical Specifications

Measurement Capabilities

4-channel simultaneous measurement: voltage, current, active/reactive/apparent power, frequency, power factor, crest factors, peak values, directional active/reactive power, and energy (Wh, varh, VA·h)

Voltage: 15 V to 1000 V AC+DC; $\pm 0.2\%$ reading $\pm 0.1\%$ range accuracy (DC, 10 Hz to 20 kHz); 1 M Ω input impedance

Current: 0.1 A to 20 A AC+DC; $\pm 0.2\%$ reading $\pm 0.1\%$ range accuracy (DC, 10 Hz to 20 kHz); 10 m Ω input impedance

Power: $\pm 0.3\%$ reading $\pm 0.2\%$ range accuracy

Sampling: up to 100 kS/s (1-channel voltage/current)

Frequency bandwidth: DC to 100 kHz at rated current

Harmonic Analysis

Up to 50th order harmonics

Measures harmonic voltage, current, and power

100 kHz resolution

Integration Function Modes: Forward, Reverse, Auto

Trigger options: Continuous, Manual, External

Trigger Units: Wh, varh, VA·h

Interfaces & Control

USB Type-A for external storage

Ethernet 10/100 BASE-TX for remote control and data transfer

RS-232C GW-BASIC compatible command set

Physical 430 mm $\times$ 177 mm $\times$ 575 mm (W $\times$ H $\times$ D); 15 kg

100–240 V AC, 50/60 Hz operation

Operating: 0°C to 40°C; Storage: -20°C to 60°C

Key Features

Simultaneous 4-channel measurement with $\pm 0.2\%$ voltage/current accuracy

Harmonic analysis extending to 50th order at 100 kHz resolution

Multiple integration modes with programmable trigger options

Wide voltage range (15 V to 1000 V) and current range (0.1 A to 20 A)

Color LCD display for real-time parameter visualization

DC to 100 kHz measurement bandwidth

Typical Applications

Power supply evaluation, inverter testing, switching power conversion analysis, renewable energy system characterization, motor drive assessment, harmonic distortion measurement, and power quality validation in industrial and laboratory environments.

Compatibility & Integration

Ethernet and RS-232C connectivity enable remote operation and automated data acquisition. USB port supports direct file export. GW-BASIC command compatibility allows integration into custom test sequences and legacy control systems.

Features & description

From manufacturer datasheet

Features

- Model: WT3004E – four power input elements
- Basic power accuracy: $\pm(0.01\%$ of reading + 0.03% of range); often cited 0.04% total
- Frequency range: DC, 0.1 Hz to 1 MHz
- Effective input range for accuracy: 1% to 130% of range
- Power factor error ($\cos \phi=0$): 0.03% of S (apparent power reading)
- Direct current ranges: 0.5/1/2/5/10/20/30 A or 5/10/20/50/100/200/500 mA, 1/2 A (2A and 30A elements mixable in one unit)
- External current input ranges: 50m/100m/200m/500m/1/2/5/10 V
- Continuous max common-mode voltage: 1000 Vrms (50/60 Hz)
- Data update rate: 50 ms to 20 s; store interval down to 50 ms
- Display: 8.4-inch LCD + range indicator LEDs
- Interfaces: GP-IB, Ethernet, RS-232, USB (option-dependent)
- Options class: /G6 advanced computation (harmonics/FFT/waveform); /B5 printer; /FQ frequency add-on; /DA 20-ch D/A; /V1 VGA; /FL flicker; /MTR motor evaluation
- Power: 100–240 VAC, 50/60 Hz; max ~150 VA with printer
- Weight: approx. 15 kg (main + 4 elements + options)
- Operating temperature: $+5$ to $+40^{\circ}\text{C}$

WT3004E Characteristics / Specifications

PARAMETER	VALUE
Model	WT3004E – four power input elements
Manufacturer	Yokogawa
Instrument Type	Precision Power Analyzer
Family	WT3000E Series
Alias	WT3004E; Yokogawa WT3004E Accuracy / Bandwidth
Basic power accuracy	$\pm(0.01\%$ of reading + 0.03% of range); often cited 0.04% total
Frequency	DC, 0.1 Hz–1 MHz
Supply	100–240 VAC (90–264 VAC allowed), 48–63 Hz
Max consumption	150 VA (with printer)
Mass	~15 kg configured
Frequency range	DC, 0.1 Hz to 1 MHz
Effective input range for accuracy	1% to 130% of range
Power factor error ($\cos \phi=0$)	0.03% of S (apparent power reading)
Direct current ranges	0.5/1/2/5/10/20/30 A or 5/10/20/50/100/200/500 mA, 1/2 A (2A and 30A elements mixable in one unit)
External current input ranges	50m/100m/200m/500m/1/2/5/10 V
Continuous max common-mode voltage	1000 Vrms (50/60 Hz)
Data update rate	50 ms to 20 s; store interval down to 50 ms
Display	8.4-inch LCD + range indicator LEDs
Interfaces	GP-IB, Ethernet, RS-232, USB (option-dependent)
Options class	/G6 advanced computation (harmonics/FFT/waveform); /B5 printer; /FQ frequency add-on; /DA 20-ch D/A; /V1 VGA; /FL flicker; /MTR motor evaluation
Power	100–240 VAC, 50/60 Hz; max ~150 VA with printer
Weight	approx. 15 kg (main + 4 elements + options)
Operating temperature	+5 to +40°C

PARAMETER	VALUE
Bandwidth	DC and 0.1 Hz–1 MHz, and mixable 2 A / 30 A input elements.

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	+5 to +40°C
Operating Temperature	+5 to +40°C
Model	WT3004E
Manufacturer	Yokogawa
Instrument Type	Precision Power Analyzer
Family	WT3000E Series
Alias	WT3004E; Yokogawa WT3004E Accuracy / Bandwidth
Basic power accuracy	±(0.01% of reading + 0.03% of range)
Frequency	DC, 0.1 Hz–1 MHz
Supply	100–240 VAC (90–264 VAC allowed), 48–63 Hz
Max consumption	150 VA (with printer)
Mass	~15 kg configured

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

Specifications

PARAMETER	VALUE
Model	WT3004E
Manufacturer	Yokogawa
Instrument Type	Precision Power Analyzer
Family	WT3000E Series
Alias	WT3004E; Yokogawa WT3004E

Accuracy / Bandwidth
Basic power accuracy: $\pm(0.01\%$ of reading + 0.03% of range)
Frequency: DC, 0.1 Hz-1 MHz
PF error @ $\cos \phi=0$: 0.03% ofS Inputs (WT3004E = 4 elements)
Mix 2A and 30A element types per order codes (-2Ax / -30Ax)
Voltage ranges for crest factor 3 per datasheet tables

General

Specifications

PARAMETER	VALUE
Supply	100-240 VAC (90-264 VAC allowed), 48-63 Hz
Max consumption	150 VA (with printer)
Mass	~15 kg configured

Warm-up: ~30 minutes

Notes
Specs from Yokogawa WT3000E / WT3004E datasheet and product pages. Confirm installed element mix (2A vs 30A), options, and calibration certificate on the unit. Discontinued family.

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.