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August 13, 2026

YOKOGAWA

# Yokogawa WT1804E Precision Power Analyzer

Yokogawa WT1804E High Performance Power Analyzer The Yokogawa WT1804E is a high performance power analyzer in the WT1800E family providing precision voltage, current, and power measurement for inverter, motor-drive, and power-conversion testing. Single/three-phase power and efficiency measurement; standby power and harmonic evaluation; production and R&D power analyzer validation; automated test with remote interfaces. The Yokogawa WT1804E is a high performance power analyzer in the WT1800E family providing precision voltage, current, and power measurement for inverter, motor-drive, and power-conversion testing. Single/three-phase power and efficiency measurement; standby power and harmonic evaluation; production and R&D power analyzer validation; automated test with remote interfaces.



MODEL

**Yokogawa  
WT1804E**

CALIBRATION

**Available on  
request**

CONDITION

**Used**

STATUS

**In stock**

RFQ / SKU

**WT1804E**

LISTING

<https://aumictechlabs.com/products/wt1804e-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

## This unit

The Yokogawa WT1804E is a precision power analyzer built for simultaneous measurement of up to 6 voltage and 6 current channels with 0.05% basic power accuracy. It delivers 2 MS/s sampling at 16-bit resolution across a 5 MHz bandwidth, making it ideal for detailed characterization of power conversion systems, motor drive behavior, and energy monitoring in R&D and manufacturing environments.

6V/6I channel measurement Sampling rate: 2 MS/s, 16-bit resolution Voltage and current frequency bandwidth: 5 MHz Basic power accuracy:  $\pm 0.05\%$  of reading  $\pm 0.05\%$  of range Guaranteed accuracy across 1% to 110% of selected range Input voltage range: 1.5 V to 1000 V Input current range: 10 mA to 5 A or 1 A to 50 A Harmonics Analysis Up to 500th harmonic order analysis for 50/60 Hz fundamentals THD, HDF, THF, and impedance measurement Dual harmonic mode for simultaneous inverter input/output analysis 50 ms harmonic data update rate Motor Evaluation (Optional) Speed, torque, slip, electrical angle, mechanical power, and efficiency measurement Sensor interface for rotation and torque outputs Low-frequency capability down to 0.1 Hz without external sampling clock

**Key Features** Independent input element and range configuration with selective auto-ranging Delta-star conversion for three-phase three-wire systems DC ripple factor measurements for voltage and current Up to 20 custom arithmetic expressions with user-defined display names Direct voltage/current inputs plus external sensor terminals High-speed waveform capture with setup and data export

**Typical Applications** Power supply characterization, inverter and converter evaluation, motor efficiency testing, grid harmonics analysis, battery system monitoring, and multi-phase power system diagnostics.

**Compatibility & Integration** USB memory device connectivity for data logging. PC integration supported via dedicated communication interfaces. Suitable for boost converter, inverter, and energy storage system measurements.

## WT1804E Characteristics / Specifications

| PARAMETER              | VALUE                                                                                                                                                                |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Model                  | WT1804E                                                                                                                                                              |
| Manufacturer           | Yokogawa                                                                                                                                                             |
| Instrument Type        | Power Analyzer                                                                                                                                                       |
| Series                 | WT1800E                                                                                                                                                              |
| Input Elements         | 4 elements                                                                                                                                                           |
| Basic Power Accuracy   | +/- (0.05% of reading + 0.05% of range)                                                                                                                              |
| Frequency Range        | DC, 0.1 Hz to 1 MHz (5 MHz -3 dB typical)                                                                                                                            |
| Voltage Range          | 1.5 to 1000 V                                                                                                                                                        |
| Current Range          | 5 A or 50 A element types                                                                                                                                            |
| Crest Factor           | 3 (6 or 6A on reduced ranges)                                                                                                                                        |
| Display                | 8.4-inch TFT color LCD                                                                                                                                               |
| Data Update Rate       | 100 ms to 20 s (model dependent)                                                                                                                                     |
| Harmonic Measurement   | optional /G5 on applicable models                                                                                                                                    |
| Interfaces             | USB; GP-IB; Ethernet                                                                                                                                                 |
| Power Supply           | 100 to 240 VAC, 50/60 Hz                                                                                                                                             |
| Operating Temperature  | 0 to 40 degC Storage Temperature: -20 to 60 degC Alias: WT1804E                                                                                                      |
| Voltage Ranges         | 1.5 to 1000 V (CF3)                                                                                                                                                  |
| Current Elements       | 5 A or 50 A types per element                                                                                                                                        |
| Sampling Rate          | approx. 2 MS/s                                                                                                                                                       |
| Harmonic Order         | up to 500th of 50/60 Hz                                                                                                                                              |
| Low Power Factor Error | improved at cos phi near 0                                                                                                                                           |
| Motor Evaluation       | optional analog/pulse torque and speed inputs Notes Specs from Yokogawa WT1800E datasheet (WT1804E). Four-element configuration for multi-phase inverter efficiency. |
| Bandwidth              | DC, 0.1 Hz to 1 MHz (5 MHz -3 dB typical)                                                                                                                            |
| Storage temperature    | 20 to 60 degC Alias: WT1804E                                                                                                                                         |

# WT1804E Specifications

| PARAMETER                                        | VALUE                                                                                                            |
|--------------------------------------------------|------------------------------------------------------------------------------------------------------------------|
| Yokogawa WT1804E High Performance Power Analyzer | Overview                                                                                                         |
| Key Features                                     | - 4 elements input element(s)                                                                                    |
| Technical Specifications                         | Model: WT1804E                                                                                                   |
| Notes                                            | Specs from Yokogawa WT1800E datasheet (WT1804E). Four-element configuration for multi-phase inverter efficiency. |

# General Specifications & Supplementary Characteristics

| PARAMETER              | VALUE                                                                                                                                                                |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Storage temperature    | 20 to 60 degC Alias: WT1804E                                                                                                                                         |
| Operating temperature  | 0 to 40 degC Storage Temperature: -20 to 60 degC Alias: WT1804E                                                                                                      |
| Operating Temperature  | 0 to 40 degC Storage Temperature: -20 to 60 degC Alias: WT1804E                                                                                                      |
| Voltage Ranges         | 1.5 to 1000 V (CF3)                                                                                                                                                  |
| Current Elements       | 5 A or 50 A types per element                                                                                                                                        |
| Sampling Rate          | approx. 2 MS/s                                                                                                                                                       |
| Harmonic Order         | up to 500th of 50/60 Hz                                                                                                                                              |
| Low Power Factor Error | improved at cos phi near 0                                                                                                                                           |
| Motor Evaluation       | optional analog/pulse torque and speed inputs Notes Specs from Yokogawa WT1800E datasheet (WT1804E). Four-element configuration for multi-phase inverter efficiency. |

# 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 Power Analyzer

Overview

The Yokogawa WT1804E isahigh performance power analyzer in the WT1800E family providing precision voltage, current, and power measurement for inverter, motor-drive, and power-conversion testing.

Applications

Single/three-phase power and efficiency measurement; standby power and harmonic evaluation; production and R&D power analyzer validation; automated test with remote interfaces.

Key Features

- 4 elements input element(s)
- Basic power accuracy +/- (0.05% of reading + 0.05% of range)
- Frequency bandwidth DC, 0.1 Hz to 1 MHz (5 MHz -3 dB typical)
- Voltage range 1.5 to 1000 V
- Current range 5 A or 50 A element types
- 8.4-inch TFT color LCD
- Interfaces: USB; GP-IB; Ethernet

Technical Specifications

Technical Specifications

| PARAMETER       | VALUE          |
|-----------------|----------------|
| Model           | WT1804E        |
| Manufacturer    | Yokogawa       |
| Instrument Type | Power Analyzer |

Specifications

| PARAMETER            | VALUE                                   |
|----------------------|-----------------------------------------|
| Series               | WT1800E                                 |
| Input Elements       | 4 elements                              |
| Basic Power Accuracy | +/- (0.05% of reading + 0.05% of range) |

Specifications

| PARAMETER       | VALUE                                     |
|-----------------|-------------------------------------------|
| Frequency Range | DC, 0.1 Hz to 1 MHz (5 MHz -3 dB typical) |
| Voltage Range   | 1.5 to 1000 V                             |
| Current Range   | 5 A or 50 A element types                 |

Specifications

| PARAMETER        | VALUE                            |
|------------------|----------------------------------|
| Crest Factor     | 3 (6 or 6A on reduced ranges)    |
| Display          | 8.4-inch TFT color LCD           |
| Data Update Rate | 100 ms to 20 s (model dependent) |

Specifications

| PARAMETER            | VALUE                             |
|----------------------|-----------------------------------|
| Harmonic Measurement | optional /G5 on applicable models |
| Interfaces           | USB; GP-IB; Ethernet              |
| Power Supply         | 100 to 240 VAC, 50/60 Hz          |

Specifications

| PARAMETER             | VALUE                                                           |
|-----------------------|-----------------------------------------------------------------|
| Operating Temperature | 0 to 40 degC Storage Temperature: -20 to 60 degC Alias: WT1804E |
| Voltage Ranges        | 1.5 to 1000 V (CF3)                                             |
| Current Elements      | 5 A or 50 A types per element                                   |

Specifications

| PARAMETER              | VALUE                      |
|------------------------|----------------------------|
| Sampling Rate          | approx. 2 MS/s             |
| Harmonic Order         | up to 500th of 50/60 Hz    |
| Low Power Factor Error | improved at cos phi near 0 |

Motor Evaluation: optional analog/pulse torque and speed inputs

Notes

Specs from Yokogawa WT1800E datasheet (WT1804E). Four-element configuration for multi-phase inverter efficiency.

### Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: [sales@aumictech.com](mailto: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.