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Test & measurement · bought, sold, repaired, calibrated

Data Sheet

August 13, 2026

YOKOGAWA

Yokogawa WT310E Digital Power Meter

Power Supply: 100 to 240 VAC (90 to 264 VAC allowed), 50/60 Hz, max 50 VA Dimensions: approx. 213 W x 88 H x 379 D mm Operating Temperature: 5 to 40 degC Storage Temperature: -25 to 60 degC Measurement Category: CAT II Specs from Yokogawa WT300E datasheet (WT310E). WT310E is the E-series 1-element 20 A meter; do not confuse with original WT310, high-current WT310EH, or WT310HC. Confirm /G5, sensor, D/A, and /C7 options on the unit. Dimensions: approx. 213 W x 88 H x 379 D mm Operating Temperature: 5 to 40 degC Storage Temperature: -25 to 60 degC Measurement Category: CAT II Specs from Yokogawa WT300E datasheet (WT310E). WT310E is the E-series 1-element 20 A meter; do not confuse with original WT310, high-current WT310EH, or WT310HC. Confirm /G5, sensor, D/A, and /C7 options on the unit.



MODEL

Yokogawa WT310E

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

WT310E

LISTING

<https://aumictechlabs.com/products/wt310e-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Yokogawa WT310E is a single-phase digital power meter engineered for precise AC and DC measurements across voltage, current, power, and frequency. It delivers simultaneous RMS, MEAN, and DC parameter acquisition with optional harmonic analysis to the 50th order and THD calculation. The instrument integrates energy and current over periods up to 10,000 hours, making it suitable for power supply evaluation, electronic device characterization, and energy consumption analysis in laboratory and field environments. Technical Specifications Measurement

Ranges Voltage (RMS): 15 V to 600 V Current (direct input): 5 mA to 20 A across 12 ranges (WT310E); 1 A to 40 A across 6 ranges (WT310EH) Lowest measurable current: 50 μ A with specified accuracy Frequency bandwidth: DC, 0.1 Hz to 100 kHz (WT310E); DC, 0.1 Hz to 20 kHz (WT310EH) Accuracy & Sampling Basic power accuracy (50/60 Hz): $\pm(0.1\%$ of reading + 0.05% of range) Voltage and current accuracy: $\pm 0.1\%$ Crest factor support: Up to 300 Sampling rate: 100 kS/s, 16-bit Data update rate: 100/250/500 ms, 1/2/5/10/20 s, Auto Power factor influence: $\pm 0.1\%$ of S External Inputs EX1: 2.5 V, 5 V, 10 V EX2: 50 mV, 100 mV, 200 mV, 500 mV, 1 V, 2 V Key Features Active, reactive, and apparent power measurement Automatic range switching for integration mode measurements MAX Hold function for RMS/PEAK voltage and current, active, reactive, and apparent power Line filter and frequency filter for noise and harmonic rejection Comparator function with threshold setting capability Auto-ranging in normal and integration modes Two-channel frequency measurement (voltage and current) Typical Applications Power supply characterization, standby power analysis, high-current device testing, harmonic content assessment, and long-duration energy integration studies. Compatibility & Integration Standard USB interface with optional RS-232, GP-IB/IEEE488, and Ethernet (Modbus/TCP) connectivity. Optional 4-channel ± 5 V D/A output available.

Features & description

From manufacturer datasheet

Features

- One input element; single-phase two-wire only (no Sigma multi-element functions)
- 5 mA range supports currents down to 50 uA class and 100 uW power resolution
- Auto-ranging integration for charge/discharge (plus/minus Wh, Ah) up to 10000 hours
- Optional /G5 harmonics to the 50th order with selectable THD order
- Optional /EX1 2.5/5/10 V or /EX2 50 mV to 2 V isolated sensor inputs
- Optional 4-channel D/A (/DA4); USB standard plus GP-IB or RS-232 and /C7 Ethernet

WT310E Characteristics / Specifications

PARAMETER	VALUE
Model	WT310E
Manufacturer	Yokogawa
Instrument Type	Digital Power Meter
Series	WT300E
Input Elements	1 element (single-phase two-wire)
Basic Power Accuracy	+/- (0.1% of reading + 0.05% of range) at 50/60 Hz
DC Measurement Accuracy	0.3% total (voltage/current/power DC class)
Power Factor Influence	+/- (0.1% of S) at cos phi = 0, 45 to 66 Hz
Frequency Range	DC, 0.1 Hz to 100 kHz
Voltage Ranges CF	15 V, 30 V, 60 V, 150 V, 300 V, 600 V
Current Ranges CF	2.5 mA, 5 mA, 10 mA, 25 mA, 50 mA, 100 mA, 0.25 A, 0.5 A, 1 A, 2.5 A, 5 A, 10 A
Crest Factor	3 (6 or 6A on reduced ranges)
Effective Input CF6A	2% to 260% of range
Sampling Rate	approximately 100 kS/s
Data Update Rate	100 ms, 250 ms, 500 ms, 1 s, 2 s, 5 s, 10 s, 20 s, Auto
Harmonic Measurement	optional /G5, 1st to 50th order
External Sensor EX	50 mV, 100 mV, 200 mV, 500 mV, 1 V, 2 V (CF3)
Voltage Input Impedance	approx. 2 MOhm, 13 pF in parallel
Current Shunt Low Ranges	approx. 500 mOhm, 0.1 uH (5 mA to 200 mA CF3)
Current Shunt High Ranges	approx. 6 mOhm + 10 mOhm max, 0.1 uH (0.5 A to 20 A CF3)
Max Current Above 30 kHz	6 A (30 kHz to 100 kHz)
Display	numeric LED class, 4 simultaneous items
Interfaces	USB standard; GP-IB or RS-232; Ethernet /C7 with Modbus/TCP
Power Supply	100 to 240 VAC (90 to 264 VAC allowed), 50/60 Hz, max 50 VA
Dimensions	approx. 213 W x 88 H x 379 D mm

PARAMETER	VALUE
Mass	approx. 3 kg
Warm Up Time	approx. 30 minutes
Operating Temperature	5 to 40 degCStorage Temperature: -25 to 60 degCMeasurement Category: CAT II
Alias	WT310E Notes Specs from Yokogawa WT300E datasheet (WT310E). WT310E is the E-series 1-element 20 A meter; do not confuse with original WT310, high-current WT310EH, or WT310HC. Confirm /G5, sensor, D/A, and /C7 options on the unit.
Storage temperature	25 to 60 degCMeasurement Category: CAT II

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Storage temperature	25 to 60 degCMeasurement Category: CAT II
Operating temperature	5 to 40 degCStorage Temperature: -25 to 60 degCMeasurement Category: CAT II
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Alias	WT310E Notes Specs from Yokogawa WT300E datasheet (WT310E). WT310E is the E-series 1-element 20 A meter; do not confuse with original WT310, high-current WT310EH, or WT310HC. Confirm /G5, sensor, D/A, and /C7 options on the unit.

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	
Technical Specifications	
PARAMETER	VALUE
Model	WT310E
Manufacturer	Yokogawa
Instrument Type	Digital Power Meter
Series	WT300E
Input Elements	1 element (single-phase two-wire)
Basic Power Accuracy	+/- (0.1% of reading + 0.05% of range) at 50/60 Hz
DC Measurement Accuracy	0.3% total (voltage/current/power DC class)
Power Factor Influence	+/- (0.1% of S) at cos phi = 0, 45 to 66 Hz
Frequency Range	DC, 0.1 Hz to 100 kHz
Voltage Ranges CF3	15 V, 30 V, 60 V, 150 V, 300 V, 600 V
Voltage Ranges CF6	7.5 V, 15 V, 30 V, 75 V, 150 V, 300 V
Current Ranges CF3	5 mA, 10 mA, 20 mA, 50 mA, 100 mA, 200 mA, 0.5 A, 1 A, 2 A, 5 A, 10 A, 20 A
Current Ranges CF6	2.5 mA, 5 mA, 10 mA, 25 mA, 50 mA, 100 mA, 0.25 A, 0.5 A, 1 A, 2.5 A, 5 A, 10 A
Crest Factor	3 (6 or 6A on reduced ranges)
Effective Input CF6A	2% to 260% of range
Sampling Rate	approximately 100 kS/s
Data Update Rate	100 ms, 250 ms, 500 ms, 1 s, 2 s, 5 s, 10 s, 20 s, Auto
Harmonic Measurement	optional /G5, 1st to 50th order
External Sensor EX1	2.5 V, 5 V, 10 V (CF3)
External Sensor EX2	50 mV, 100 mV, 200 mV, 500 mV, 1 V, 2 V (CF3)
Voltage Input Impedance	approx. 2 MOhm, 13 pF in parallel
Current Shunt Low Ranges	approx. 500 mOhm, 0.1 uH (5 mA to 200 mA CF3)
Current Shunt High Ranges	approx. 6 mOhm + 10 mOhm max, 0.1 uH (0.5 A to 20 A CF3)
Max Current Above 30 kHz	6 A (30 kHz to 100 kHz)
Display	numeric LED class, 4 simultaneous items

PARAMETER	VALUE
Interfaces	USB standard; GP-IB or RS-232; Ethernet /C7 with Modbus/TCP
Power Supply	100 to 240 VAC (90 to 264 VAC allowed), 50/60 Hz, max 50 VA
Dimensions	approx. 213 W x 88 H x 379 D mm
Mass	approx. 3 kg
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Measurement Category	CAT II
Alias	WT310E

Specifications

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Input Elements	1 element (single-phase two-wire)
Basic Power Accuracy	+/- (0.1% of reading + 0.05% of range) at 50/60 Hz
DC Measurement Accuracy	0.3% total (voltage/current/power DC class)
Power Factor Influence	+/- (0.1% of S) at cos phi = 0, 45 to 66 Hz
Frequency Range	DC, 0.1 Hz to 100 kHz
Voltage Ranges CF3	15 V, 30 V, 60 V, 150 V, 300 V, 600 V
Voltage Ranges CF6	7.5 V, 15 V, 30 V, 75 V, 150 V, 300 V
Current Ranges CF3	5 mA, 10 mA, 20 mA, 50 mA, 100 mA, 200 mA, 0.5 A, 1 A, 2 A, 5 A, 10 A, 20 A
Current Ranges CF6	2.5 mA, 5 mA, 10 mA, 25 mA, 50 mA, 100 mA, 0.25 A, 0.5 A, 1 A, 2.5 A, 5 A, 10 A
Crest Factor	3 (6 or 6A on reduced ranges)
Effective Input CF6A	2% to 260% of range
Sampling Rate	approximately 100 kS/s
Data Update Rate	100 ms, 250 ms, 500 ms, 1 s, 2 s, 5 s, 10 s, 20 s, Auto
Harmonic Measurement	optional /G5, 1st to 50th order
External Sensor EX1	2.5 V, 5 V, 10 V (CF3)
External Sensor EX2	50 mV, 100 mV, 200 mV, 500 mV, 1 V, 2 V (CF3)

PARAMETER	VALUE
Voltage Input Impedance	approx. 2 MΩ, 13 pF in parallel
Current Shunt Low Ranges	approx. 500 mΩ, 0.1 μH (5 mA to 200 mA CF3)
Current Shunt High Ranges	approx. 6 mΩ + 10 mΩ max, 0.1 μH (0.5 A to 20 A CF3)
Max Current Above 30 kHz	6 A (30 kHz to 100 kHz)
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Notes

Specs from Yokogawa WT300E datasheet (WT310E). WT310E is the E-series 1-element 20 A meter; do not confuse with original WT310, high-current WT310EH, or WT310HC. Confirm /G5, sensor, D/A, and /C7 options on the unit.

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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Generated August 13, 2026

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