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Data Sheet

August 13, 2026

YOKOGAWA

Yokogawa WT310 Digital Power Meter

The Yokogawa WT310 is the single-element compact digital power meter in the original WT300 family. It measures voltage, current, power, power factor, frequency, and energy on single-phase two-wire circuits with a 5 mA to 20 A direct-current span suited to standby-power and Energy Star / IEC 62301 work as well as general production power tests. Standby and off-mode power of household and office equipment; battery-charger and adapter efficiency; production-line single-phase power screening; IEC 62301 class measurements with optional harmonics; automated test via USB and GP-IB or RS-232. Interfaces: USB standard; GP-IB or RS-232 selectable; Ethernet optional Power Supply: 100 to 240 VAC, 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 Alias: WT310



MODEL	CALIBRATION
Yokogawa WT310	Available on request
CONDITION	STATUS
Used	In stock
RFQ / SKU	LISTING
WT310	https://aumictechlabs.com/products/wt310-2/

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Yokogawa WT310 Digital Power Meter is a half-rack instrument engineered for precise measurement of electrical power across AC and DC systems in industrial and research environments. It delivers 0.1% basic accuracy and simultaneous measurement of voltage, current, active power, reactive power, apparent power, power factor, frequency, and harmonics without mode switching. The WT310 operates from 100–240 VAC supply (90–264 VAC permitted range) at 50/60 Hz and consumes maximum 50 VA, with lithium battery backup for setup

parameters. Technical Specifications Measurement Bandwidth: DC, 0.5 Hz to 100 kHz (0.1 Hz to 100 kHz for WT310E/EH variants) Basic Accuracy: 0.1% of reading (0.1% of reading + 0.05% of range for WT310E/EH) Voltage Input Ranges: 7.5 V to 600 V direct input (crest factor dependent); maximum 1000 VRMS or 1.5 kV peak Voltage Input Impedance: Approximately 2 M Ω Current Input Ranges: 2.5 mA to 20 A direct input (standard); 1 A to 40 A for WT310EH; down to 50 μ A for WT310 base model Current Input Resistance: 6 m Ω + 10 m Ω (max) for 0.5–20 A ranges; approximately 500 m Ω for 5–200 mA ranges Warm-up Time: Approximately 30 minutes Operating Environment: 5–40°C, 20–80% RH (non-condensing), elevation $\leq$ 2000 m Storage Environment: –25–60°C Weight: Approximately 3 kg Dimensions: Half-rack size Key Features Simultaneous AC and DC parameter measurement across multiple channels Harmonic analysis and integration performed concurrently with primary measurements External current sensor input options (EX1, EX2) for extended range capability Lithium battery-backed parameter retention Direct voltage input to 600 V; direct current input to 40 A (WT310EH) Low input capacitance (13 pF) and inductance specifications minimize circuit loading Typical Applications Product development, quality assurance, energy efficiency analysis, production line testing, and R&D power characterization where simultaneous multi-parameter AC/DC measurement and harmonic content analysis are required.

Features & description

From manufacturer datasheet

Features

- Single input element, single-phase two-wire wiring only
- Direct current from 5 mA (50 μ A class sensitivity) to 20 A without an external sensor
- Compact half-rack 88 mm-high chassis with 7-segment numeric display
- Optional /G5 harmonic analysis to the 50th order
- Optional /EX1 or /EX2 isolated BNC current-sensor inputs
- Optional 4-channel D/A output (/DA4)
- USB standard; selectable GP-IB or RS-232; optional Ethernet

WT310 Characteristics / Specifications

PARAMETER	VALUE
Model	WT310
Manufacturer	Yokogawa
Instrument Type	Digital Power Meter
Series	WT300
Input Elements	1 element (single-phase two-wire)
Basic Power Accuracy	+/- (0.1% of reading + 0.1% of range) at 50/60 Hz
DC Power Accuracy	+/- (0.1% of reading + 0.2% of range)
Power Factor Influence	+/- (0.2% of S) at cos phi = 0, 45 to 66 Hz
Frequency Range	DC, 0.5 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 CF	1% to 130% of range
Sampling Rate	approximately 100 kS/s
Data Update Rate	100 ms, 200 ms, 500 ms, 1 s, 2 s, 5 s
Harmonic Measurement	optional /G5, up 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
Display	7-segment LED, up to 4 simultaneous items
Interfaces	USB standard; GP-IB or RS-232 selectable; Ethernet optional
Power Supply	100 to 240 VAC, 50/60 Hz, max 50 VA
Dimensions	approx. 213 W x 88 H x 379 D mm
Mass	approx. 3 kg
Warm Up Time	approx. 30 minutes

PARAMETER	VALUE
Operating Temperature	5 to 40 degCStorage Temperature: -25 to 60 degCAlias: WT310 Notes Specs from Yokogawa WT300 series bulletin (WT310). WT310 is the original (non-E) 1-element 20 A model; do not confuse with WT310E, WT310EH, or WT310HC. Confirm /G5, /EX1, /EX2, /DA4, and interface suffix on the unit.
Storage temperature	25 to 60 degCAlias: WT310

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Storage temperature	25 to 60 degCAlias: WT310
Operating temperature	5 to 40 degCStorage Temperature: -25 to 60 degCAlias: WT310
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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	
Technical Specifications	
PARAMETER	VALUE
Model	WT310
Manufacturer	Yokogawa
Instrument Type	Digital Power Meter
Series	WT300
Input Elements	1 element (single-phase two-wire)
Basic Power Accuracy	+/- (0.1% of reading + 0.1% of range) at 50/60 Hz
DC Power Accuracy	+/- (0.1% of reading + 0.2% of range)
Power Factor Influence	+/- (0.2% of S) at cos phi = 0, 45 to 66 Hz
Frequency Range	DC, 0.5 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 CF3	1% to 130% of range
Sampling Rate	approximately 100 kS/s
Data Update Rate	100 ms, 200 ms, 500 ms, 1 s, 2 s, 5 s
Harmonic Measurement	optional /G5, up 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
Display	7-segment LED, up to 4 simultaneous items
Interfaces	USB standard; GP-IB or RS-232 selectable; Ethernet optional
Power Supply	100 to 240 VAC, 50/60 Hz, max 50 VA
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Frequency Range	DC, 0.5 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 CF3	1% to 130% of range
Sampling Rate	approximately 100 kS/s
Data Update Rate	100 ms, 200 ms, 500 ms, 1 s, 2 s, 5 s
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Notes

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