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Test & measurement · bought, sold, repaired, calibrated

Data Sheet

August 13, 2026

YOKOGAWA

Yokogawa WT310HC Digital Power Meter

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 Measurement Category: CAT II Specs from Yokogawa WT300 series bulletin (WT310HC). WT310HC is the original (non-E) 1-element 40 A model; do not confuse with WT310EH (E-series, 0.1 Hz, tighter range accuracy). Confirm /G5, /EX, /DA4, and interface suffix 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 WT300 series bulletin (WT310HC). WT310HC is the original (non-E) 1-element 40 A model; do not confuse with WT310EH (E-series, 0.1 Hz, tighter range accuracy). Confirm /G5, /EX, /DA4, and interface suffix on the unit.



MODEL

**Yokogawa
WT310HC**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

WT310HC

LISTING

<https://aumictechlabs.com/products/wt310hc-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Yokogawa WT310HC is a single-phase digital power meter engineered for high-accuracy AC and DC power measurements across distorted waveforms and high harmonic content. Built for modern switching power supplies and energy-efficient devices, it simultaneously measures voltage, current, active power, reactive power, apparent power, power factor, frequency, harmonics, and energy integration without mode switching. Direct current input capability reaches

40 A RMS, making it suitable for both precision laboratory work and production-line validation.

Technical Specifications

Measurement Parameters Voltage, Current, Active Power, Reactive Power, Apparent Power, Power Factor, Frequency, Harmonics, and Integration (Ah, Wh)

Integration function supports up to 10,000 hours with auto-ranging for fluctuating power devices

Average Active Power measurement for burst-waveform and variable-load applications

Voltage Measurement Ranges: 15 V, 30 V, 60 V, 150 V, 300 V, 600 V RMS

Crest Factor: Up to 3 or 6 (range-dependent)

Input Impedance: Approximately 2 M Ω with ~13 pF parallel capacitance

Current Measurement

Direct Input Crest Factor 3: 5 mA to 20 A RMS (twelve ranges)

Crest Factor 6: 2.5 mA to 10 A RMS (twelve ranges)

High Current: Direct input up to 40 A RMS (WT310HC)

Input Impedance (≤ 200 mA): ~500 m Ω + ~1 μ H series inductance

Input Impedance (0.5 A–20 A): ~6 m Ω + 10 m Ω max, ~0.1 μ H series inductance

Current Measurement

External Sensor Input EX1 (Crest Factor 3): 2.5 V, 5 V, 10 V

EX1 (Crest Factor 6): 1.25 V, 2.5 V, 5 V

EX2 (Crest Factor 3): 50 mV to 2 V (six ranges)

EX2 (Crest Factor 6): 25 mV to 1 V (six ranges)

Bandwidth DC and 0.5 Hz to 100 kHz

Key Features Single measurement mode captures all AC and DC parameters, harmonics, and integration simultaneously

High-resolution analog-to-digital converter for precise waveform capture

Auto-ranging integration function for standby and variable-load power analysis

Handles waveforms with DC components and severe harmonic distortion

Typical Applications R&D characterization of switching power supplies and renewable energy converters

Production-line efficiency validation for consumer electronics

Standby power and energy consumption testing

Harmonic and power quality assessment in non-linear loads

Features & description

From manufacturer datasheet

Features

- One input element; single-phase two-wire; 40 Arms direct input
- Six current ranges 1 A to 40 A (CF3) instead of the WT310 5 mA to 20 A set
- 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 (/DA4); USB standard with selectable GP-IB or RS-232

WT310HC Characteristics / Specifications

PARAMETER	VALUE
Model	WT310HC
Manufacturer	Yokogawa
Instrument Type	Digital Power Meter
Series	WT300
Input Elements	1 element (single-phase two-wire, high current)
Basic Power Accuracy	+/- (0.1% of reading + 0.1% of range) at 50/60 Hz
DC Power Accuracy	+/- (0.3% 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 20 kHz (direct current input)
Voltage Ranges CF	15 V, 30 V, 60 V, 150 V, 300 V, 600 V
Current Ranges CF	0.5 A, 1 A, 2.5 A, 5 A, 10 A, 20 A
Crest Factor	3 (6 or 6A on reduced ranges)
Effective Input CF	1% to 130% of range (40 A range 1% to 100%)
Maximum Display CF	1% to 140% of range (40 A range 1% to 110%)
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
Continuous Max Current	40 Arms direct (peak 150 A or 44 Arms class, 1 s)
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

PARAMETER	VALUE
Warm Up Time	approx. 30 minutes
Operating Temperature	5 to 40 degCStorage Temperature: -25 to 60 degCMeasurement Category: CAT II
Alias	WT310HC Notes Specs from Yokogawa WT300 series bulletin (WT310HC). WT310HC is the original (non-E) 1-element 40 A model; do not confuse with WT310EH (E-series, 0.1 Hz, tighter range accuracy). Confirm /G5, /EX, /DA4, and interface suffix on the unit.
Bandwidth	of DC and 0.5 Hz to 20 kHz, for single-phase motors, heaters, and high-current production tests without external current sensors.
Storage temperature	25 to 60 degCMeasurement Category: CAT II

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Storage temperature	25 to 60 degCMeasurement Category: CAT II
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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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Power Factor Influence	+/- (0.2% of S) at cos phi = 0, 45 to 66 Hz
Frequency Range	DC, 0.5 Hz to 20 kHz (direct current input)
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	1 A, 2 A, 5 A, 10 A, 20 A, 40 A
Current Ranges CF6	0.5 A, 1 A, 2.5 A, 5 A, 10 A, 20 A
Crest Factor	3 (6 or 6A on reduced ranges)
Effective Input CF3	1% to 130% of range (40 A range 1% to 100%)
Maximum Display CF3	1% to 140% of range (40 A range 1% to 110%)
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
Continuous Max Current	40 Arms direct (peak 150 A or 44 Arms class, 1 s)
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Interfaces	USB standard; GP-IB or RS-232 selectable; Ethernet optional
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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.