

Yokogawa Power Quality Analyzer

NEW

Power Measuring & Logging

- Simultaneously measures 3 CH Voltage input, 4 CH current clamp-on probe input, 2 CH DCV input.
- Displays value list or trend graph screen of Instantaneous/Average/Maximum/Minimum of Voltage/Current/Power/Power factor/Phase Angle/Phase Advanced Capacitance Calculation and DCV input.
- Integration Value of Active/Reactive/Apparent Energy is each displayed by consumption and generation.
- Demand value can be monitored by screens of present power consumption compared to aimed demand power value.

Power Quality Measuring

Measure Temporary Malfunction of Power Line

- Captures temporary malfunction phenomena of power line which causes malfunction or destruction of devices by types (Voltage swell, Voltage dip, Voltage interruption, Transient overvoltage, Inrush current) as an event by high sampling rate of 24 μ s and RMS calculation.
- Event data contains the type of malfunction, occurred time or occurrence finish time, measured value and waveform of voltage and current of all channels for approx. 200 ms period.
- Measurement conforms to IEC standard 61000-4-30 Class S

Measure Continuous Malfunction of Power Line

- Measure and display graphs and list of up to the 50th Harmonic components of voltage, current & power for each phase and in total.
- Displays with up to 10 or 12 waveforms of voltage and current for each CH.
- Measures, 1 minute flicker (Pst, 1 min), short flicker (Pst) and long flicker (Plt).
- Displays voltage and current unbalance rate on 3 phase wiring.

Data Analysis & Report Generation Software

- Automatically generates graph and report by simply clicking on file data displayed on screen.
- Reports Power data, Power quality event data, Main Unit Setting data, Screen capture data.

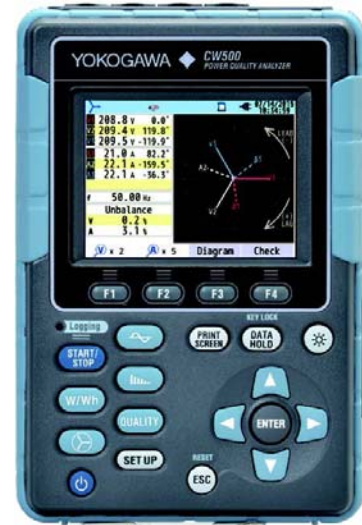
CW500 includes 4 voltage probes, six AA batteries, carrying case, 2G SD memory card & PC software. Order current probes separately.



Vector Display indicates voltage and current phase difference and values between input channels of voltage and current. It also checks whether the wiring is appropriate.

CW500

CW500 Viewer software provides management of main unit settings and realtime measurements via USB.



SPECIFICATIONS

Wiring connections:	1P2W (max. 4 systems), 1P3W (max. 2 systems), 3P3W (max. 2 systems), 3P3W3 current, 3P4W
Measurements:	Voltage, Current, Frequency, Active power, Reactive power, Apparent power, Active energy, Reactive energy, Apparent energy, Power factor, Phase Advancing Condenser, Neutral current, Demand, Harmonics, Inrush current, Power Quality (Swell/Dip/Interrupt/Transient overvoltage, Unbalance rate, IEC flicker)
Other functions:	Digital output, Analog DCV input function
Voltage range:	600.0/1000 V RMS
Accuracy:	$\pm 0.2\%$ rdg $\pm 0.2\%$ rng. (sine wave, 40-70 Hz)
Allowable input:	1 to 120% (rms) of each range, 200% for peak of each range
Display range:	0.15 to 130% of each range
Crest factor:	3 or less
Sampling speed	24 μ s for voltage transient
Current range:	manual or auto, see probe table (below)
Accuracy:	$\pm 0.2\%$ rdg $\pm 0.2\%$ rng. + accuracy of clamp-on probe (sine wave, 40-70 Hz)
Allowable input:	1 to 110% (rms) of each range, 200% for peak of each range
Display range:	0.15 to 130% of each range
Crest factor:	3 or less
Active power range:	See probe table (below)
Accuracy:	$\pm 0.3\%$ rdg $\pm 0.2\%$ rng. + accuracy of clamp-on probe (Power factor 1, sine wave, 40-70 Hz)
Effect of Power Factor:	$\pm 1.0\%$ rdg (40-70 Hz, reading at power factor 0.5 ref. 1.0)
Frequency meter:	40 to 70 Hz
Power supply (AC Line):	100-240 V/50-60 Hz/7 VA max.
Power supply (Battery):	Alkaline size AA battery LR6 or Ni-Mh (HR15-51) \times 6 pcs
Battery life:	3 hours typical (LR6, Backlight OFF)
Internal memory:	Flash memory (4 MB)
External memory card:	SD Card (2 GB)
PC communication:	USB Ver. 2.0, Bluetooth Ver. 2.1 + EDR Class2
Display:	320 \times 240 (RGB) Pixel, 3.5 inch color TFT, 1 s update rate
Operating temperature:	0 to 45°C, less than 85% RH (without condensation)
Dimensions:	120 (W) \times 175 (H) \times 68 (D) mm

ORDERING INFO

YE/CW500-B0-D	Power Quality Analyzer, 120VAC cord, no Bluetooth
YE/CW500-B1-D	Power Quality Analyzer, 120VAC cord, with Bluetooth
Current Probes	
YE/96060	Clamp-on Probe 40mm AC 2A for leakage current
YE/96061	Clamp-on Probe 18mm AC 50A for load current
YE/96062	Clamp-on Probe 24mm AC 100A for load current
YE/96063	Clamp-on Probe 30mm AC 200A for load current
YE/96064	Clamp-on Probe 40mm AC 500A for load current
YE/96065	Clamp-on Probe ~110mm AC 1000A flexible type for load current
YE/96066	Clamp-on Probe ~150mm AC 3000A flexible type for 3ch load current

Power Ranges for Clamp-on Probes - in 1P2W configuration (multiply x2 for 1P3W and 3P3W, x3 for 3P4W)

Voltage range:	Clamp-on Probe Model & Current ranges											
	96061		96062		96063		96064		96065		96066	
	5000 mA	50.00 A	10.00 A	100.0 A	20.00 A	200.0 A	50.00 A	500.0 A	100.0 A	1000 A	300.0 A	3000 A
600.0 V	3000 W	30.00 kW	6000 W	60.00 kW	12.00 kW	120.0 kW	30.00 kW	300.0 kW	60.00 kW	600.0 kW	180.0 kW	1800 kW
1000 V	5000 W	50.00 kW	10.00 kW	100.0 kW	20.00 kW	200.0 kW	50.00 kW	500.0 kW	100.0 kW	1000 kW	300.0 kW	3000 kW