

Comparison of Specifications and Functions in WT3000, Other WT Series Models, and PZ4000

		WT3000	WT2000	WT1600	PZ4000	
Range	Basic power accuracy (50/60 Hz)	0.02% of reading + 0.04% of range	0.04% of reading + 0.04% of range	0.1% of reading + 0.05% of range	0.1% of reading + 0.25% of range	
	Measurement bandwidth	DC, 0.1 Hz to 1 MHz	DC, 2 Hz to 500 kHz (voltage, current) DC, 2 Hz to 300 kHz (power)	DC, 0.5 Hz to 1 MHz	DC, 0.1 Hz to 1 MHz	
	Input elements	1, 2, 3, 4	1, 2, 3	1, 2, 3, 4, 5, 6	1, 2, 3, 4	
	Voltage range	15/30/60/100/150/300/600/1000[V] (when crest factor is 3) 7.5/15/30/50/75/150/300/500[V] (when crest factor is 6)	15/30/60/100/150/300/600[V] (for crest factors 3 and 6)	1.5/3/6/10/15/30/60/100/150/300/600/1000[V] (when crest factor is 3) 750m/1.5/3/6/7/5/15/30/50/75/150/300/500[V] (when crest factor is 6)	30/60/120/200/300/600/1200/2000[Vpk]	
	Current range	Direct input 0.5/1/2/5/10/20/30[A] (when crest factor is 3) 0.25/0.5/1/2.5/5/10/15[A] (when crest factor is 6)	1/2/5/10/20/30 [A] (for crest factors 3 and 6)	Select from 10m/20m/50m/100m/200m/500m/1/2/5[A] or 1/2/5/10/20/50[A] (when crest factor is 3) 5m/10m/25m/50m/100m/250m/500m/1/2.5[A] or 0.5/1/2.5/5/10/25[A] (when crest factor is 6)	5A module: 0.1/0.2/0.4/1/2/4/10[Apk] (5Arms) 20A module: 0.1/0.2/0.4/1/2/4/10[Apk] (5Arms) 1/2/4/10/20/40/100[Apk] (20Arms)	
External sensor input	50m/100m/250m/500m/1/2/5/10[V] (when crest factor is 3) 25m/50m/125m/250m/500m/1/2.5/5[V] (when crest factor is 6)	50m/100m/200m[V] (for crest factors 3 and 6)	50m/100m/250m/500m/1/2.5/5/10[V] (when crest factor is 3) 25m/50m/125m/250m/500m/1.25/2.5/5[V] (when crest factor is 6)	0.1/0.2/0.4/1[Vpk]		
Guaranteed accuracy range for voltage and current ranges	1% to 130%	10% to 130%	1% to 110%	5% to 70%		
Main measurement parameters	Voltage, current, active power, reactive power, apparent power, power factor, phase angle, peak voltage, peak current, crest factor					
Peak hold (instantaneous maximum value hold)	✓	✓	✓	✓	✓	
MAX hold	✓	✓	✓	✓	✓	
Voltage RMS/MEAN simultaneous measurement	✓	(see note)	✓	✓	✓	
RMS/MEAN/AC/DC simultaneous measurement	✓	✓	✓	✓	✓	
Mean active power	✓ (user-defined function)	✓	✓ (user-defined function)	✓	✓	
Active power amount (WP)	✓	✓	✓	✓	✓	
Apparent power amount (WS)	✓	✓	✓	✓	✓	
Reactive power amount (WQ)	✓	✓	✓	✓	✓	
Frequency	2 channels (up to 8 channels with option /FQ)	One from voltages or currents on installed input elements	Up to three from voltages or currents on installed input elements	All installed voltages and currents (up to 8 channels)		
Efficiency	✓	✓	✓	✓		
Phase angle between phases (fundamental wave)	(/G5, /G6) (/G6 is being planned)(opt.)	✓	✓	✓		
Motor evaluation	Torque, rotational velocity input (motor version)(opt.)	✓	Torque and rotational velocity input(opt.)	Torque and rotational velocity input (requires sensor input module 25377)(opt.)		
FFT spectral analysis	Planned for release (/G6)(opt.)	✓	✓	✓		
User-defined functions	✓ (20 functions)	✓	✓ (4)	✓ (4)		
Display resolution	Voltage, current, power	600,000	50,000	60,000	99,999 or 999,999	
	Power amount, current amount	999,999	500,000	999,999	No integration function	
	Frequency	99,999	199,999	99,999	99,999	
	Display	8.4-inch TFT color LCD	7-segment display	6.4-inch TFT color LCD	6.4-inch TFT color LCD	
Measurement functions	Display format	Numerical values, waveforms, trends, bar graphs, vectors	Numerical values (4 values)	Numerical values, waveforms, trends, bar graphs, vectors	Numerical values, waveforms, trends, bar graphs, vectors X-Y	
	Sampling frequency	Approximately 200 k/s	Approximately 110 k/s	Approximately 200 k/s	Maximum 5 MS/s	
	Harmonic measurement	(/G5, /G6) (/G6 is being planned)(opt.)	(opt.)	✓	✓	
	IEC standards-compliant harmonic measurement	Planned for release (/G6)(opt.)	(opt.)	✓	✓	
	Flicker measurement	Planned for release (/FL)(opt.)	(opt.)	✓	✓	
	Compensation function	✓	✓	✓	✓	
	Delta calculation function	(/DT)(opt.)	✓	✓	✓	
	DA output	20 channels (/DA)(opt.)	14 channels	30 channels(opt.)	✓	
	Synchronized operation	✓	✓	✓	✓	
	Storage (internal memory for storing data)	Approximately 30MB (with /G5; not yet determined for /G6 ✓ GP-IB; RS-232 (/C2)(opt.); VGA output (/V1)(opt.); Ethernet (/C7)(opt.)	3 GP-IB or RS-232	Approximately 11MB ✓ GP-IB or RS-232; SCS(opt.); Ethernet(opt.); ✓ VGA output	Note, but acquisition memory has 10 MB/channel (up to 4 MB/channel can be installed with option) ✓ GP-IB; ✓ RS-232; ✓ Centronics; SCS(opt.)	
	Other features	Communication command compatibility	None (communication commands vary from product to product)			
		Communication command standards	Commands in IEEE488.2 standard	IEEE standard 488.2 or earlier command system and IEEE488.2 commands	Commands in IEEE488.2 standard	Commands in IEEE488.2 standard
Data updating interval		50m/100m/200m/500m/1/2/5/10/20[S]	200m/500m/2[S]	50m/100m/200m/500m/1/2/5[S]	Depends on waveform acquisition length and calculations	
Removable storage		✓ PC card interface: USB (/C7 and C12 are being planned)(opt.)	✓ FDD	✓ FDD	✓ FDD	
Printer		Built-in printer (front side) (/B5)(opt.)	Built-in printer (front side)(opt.)	Built-in printer (front side)(opt.)	Built-in printer (top side)(opt.)	

There are limitations on some specifications and functions. See the individual product catalogs for details.

(opt.):Optional