Comparison of Specifications and Functions in WT500, Other WT Series Models

Comparison among WT series

			WT500	WT210/WT230	WT1600	WT3000
Range	Basic power accuracy (50/60 Hz)		0.1% of reading + 0.1% of range	0.1% of reading + 0.1% of range	0.1% of reading + 0.05% of range	0.02% of reading + 0.04% of range
	Measurement power bandwidth		DC, 0.5 Hz to 100 kHz	DC, 0.5 Hz to 100 kHz	DC, 0.5 Hz to 1 MHz	DC, 0.1 Hz to 1 MHz
	Input elements		1, 2, 3	(WT210), 2&3 (WT230)	1, 2, 3, 4, 5, 6	1, 2, 3, 4
	Voltage range (Crest factor=3)		15/30/60/100/150/300/600/1000 [V]	15/30/60/120/200/300/600 [V]	1.5/3/6/10/15/30/60/100/150/300/600/1000 [V]	15/30/60/100/150/300/600/1000 [V]
	Current range (Crest factor=3)	Direct input	0.5/1/2/5/10/20/40 [A]	5 m/10 m/20 m/50 m/0.1/0.2/0.5/1/2/5 /10/20 [A] (WT210) 0.5/1/2/5/10/20 [A] (WT230)	Select from 10 m/20 m/50 m/100 m/200 m /500 m/1/2/5 [A] or 1/2/5/10/20/50 [A]	0.5/1/2/5/10/20/30 [A]
		External sensor input	50 m/100 m/200 m/500 m/1/2/5/10 [V] (opt.)	50 m/100 m/250 m [V] or 2.5/5/10 [V] (opt.)	50 m/100 m/250 m/500 m/1/2.5/5/10 [V]	50 m/100 m/200 m/500 m/1/2/5/10 [V]
	Guaranteed accuracy range for voltage and current ranges		1% to 110%	1% to 130%	1% to 110%	1% to 130%
Measurement parameters	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		✓		✓	✓
	RMS/MEAN/AC/DC simultaneous measurement		✓		✓	
	Average active power		✓ (user-defined function)	✓	✓ (user-defined function)	✓ (user-defined function)
	Active power amount (WP)		✓	✓	✓	✓
	Apparent power amount (WS)		✓			✓
	Reactive power amount (WQ)		✓			✓
	Frequency		2 channels (up to 6 channels with option /FQ)	selected voltage or current (one)	Up to three from voltages or currents on installed input elements	2 channels (up to 8 channels with option /FQ)
	Efficiency		✓	✓	✓	✓
	Motor evaluation				Torque and rotational velocity input (opt.)	Torque, rotating speed input (motor version) (opt.)
	FFT spectral analysis					(/G6) (opt.)
	User-defined functions		✓ (8 functions)		✓ (4)	✓ (20 functions)
Display	Display		5.7-inch TFT color LCD	7-segment display	6.4-inch TFT color LCD	8.4-inch TFT color LCD
	Display format		Numerical values, waveforms, trends, bar graphs,vectors	Numerical values (3)	Numerical values, waveforms, trends, bar graphs, vectors	Numerical values, waveforms, trends, bar graphs, vectors
	Sampling frequency		Approximately 100 kS/s	Approximately 50 kS/s	Approximately 200 kS/s	Approximately 200 kS/s
Measurement/ functions	Harmonic measurement		✓ (/G5) (opt.)	✓ (opt.)	✓	(/G6) (opt.)
	IEC standards-compliant harmonic measurement					(/G6) (opt.)
	Flicker measurement					(/FL) (opt.)
	Cycle by cycle					(/CC) (opt.)
	Delta calculation function		✓ (/DT) (opt.)		✓ (diff are not supported)	(/DT) (opt.)
	DA output			4 channels (WT210) (opt.), 12 channels (WT230) (opt.)	30 channels (opt.)	20 channels (/DA) (opt.)
	Synchronized operation		✓		✓	✓
	Storage (internal memory for storing data)		Approximately 20 MB (Internal Memory) Max. 1 GB (direct memory to USB)	MAX.600 sample (WT210), MAX.300 sample (WT230)	Approximately 11 MB	approximately 30MB
Other features	Interfaces		USB, GP-IB (/C1 opt.) Ethernet (/C7 opt.), VGA output (/V1)(opt.)	GP-IB; or RS-232; (opt.) (WT210) GP-IB; or RS-232 (WT230)	GP-IB or RS-232; SCSI (opt.); Ethernet (opt.); VGA output	GP-IB; RS-232 (/C2) (opt.); USB (/C12) VGA output (/V1) (opt.); Ethernet (/C7) (opt.)
	Data updating interval		100 m/200 m/500 m/1/2/5 [S]	100 m/250 m/500 m/1/2/5 [S]	50 m/100 m/200 m/500 m/1/2/5 [S]	50 m/100 m/250 m/500 m/1/2/5/10/20 [S]
	Removable storage		USB		FDD	PC card interface; USB (/C5) (opt.)
	Printer				Built-in printer (front side) (opt.)	Built-in printer (front side) (/B5) (opt.)

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