

# Power Quality Analyser Comparison Chart



	PM7500	PM7000	PM4000	PM3000	PM2000	PM1000
<b>No. Voltage Channels</b>	4	4	4	3	3	1
<b>Voltage Range AC</b>	0-600Vrms or 0-1000Vrms (L-L and L-N), 0-848Vpk or 0-1414Vpk Transient voltages up to 4000V	0-600Vrms or 0-1000Vrms (L-L and L-N), 0-848Vpk or 0-1414Vpk Transient voltages up to 4000V	0-600Vrms or 0-1000Vrms (L-L and L-N), 0-848Vpk or 0-1414Vpk Transient voltages up to 4000V	0-480Vrms or 0-600Vrms 0-678Vpk or 0-848Vpk	0-300Vrms 0-424Vpk	0-270 Vrms 0-381Vpk
<b>Voltage Range DC</b>	0-300Vdc			0-480Vdc		
<b>No. Current Channels</b>	4	4	4	3	2	1
<b>Current Range AC</b>	Typical 0-1V RMS. Current to Voltage CTs supplied, nominal input 1A (5A or 10A on special request)	0-400.0A or 0-6000A	0-400.0A or 0-6000A	0-50.00A, 0-400.0A or 0-3000A	0-200A or 0-300A	0-50.00A or 0-1000A
<b>Current Range DC</b>	Variable with relevant current clamps		Variable with relevant current clamps			
<b>Ability to Measure Neutral</b>	✓	✓	✓	✓		✓
<b>Differential Voltage Channels</b>	✓	✓	✓	✓		
<b>Detailed Recording Channels</b>	32	32	32	16	16	16
<b>General Parameters</b>	✓	✓				
<b>DC Measurement</b>	✓			Optional		
<b>Fault Level</b>	Optional	Optional				
<b>Flicker (Plt, Pst, Pinst, Pflag)</b>	✓	✓	✓	✓	✓	✓
<b>Highest order of individual harmonics</b>	49th (127th Optional)	50th (127th Optional)	50th (127th Optional)	15th	15th	15th
<b>Interharmonics</b>	Optional	Optional				
<b>THD and THC</b>	✓	✓	✓	✓	✓	✓
<b>kW</b>	✓	✓	✓	✓	✓	✓
<b>KVA</b>	✓	✓	✓	✓	✓	✓
<b>KVAR</b>	✓	✓	✓	✓	✓	✓
<b>Power Factor</b>	✓	✓	✓	✓	✓	✓
<b>Unbalance (V &amp; I)</b>	✓	✓	✓	✓	✓	✓
<b>Frequency 45-65Hz (Can automatically detect 50 or 60Hz nominal)</b>	✓	✓	✓	✓	✓	✓
<b>InRush Current</b>	✓	✓	✓	✓	✓	✓
<b>K Factor</b>	✓	✓	✓			
<b>Symmetrical Components</b>	✓	✓	✓	✓		
<b>Single Cycle Adaptive Store</b>	✓	✓	✓	✓	✓	✓
<b>Data logging time interval single cycle to 12hrs or Auto-variable with Adaptive Store</b>	✓	✓	✓	✓	✓	✓
<b>Sag / Swell / Outage Monitoring</b>	✓	✓	✓	✓	✓	✓
<b>High Speed Waveforms with AutoRanking Waveform Capture</b>	Yes at 19.2k Samples/sec	Yes at 19.2k, 153.6k, 1.2M Samples/sec	Yes at 19.2k Samples/sec			
<b>Transient detection</b>	Yes both cycle & sub cycle	Yes both cycle & sub cycle	Yes both cycle & sub cycle	Yes down to single cycle	Yes down to single cycle	Yes down to single cycle
<b>CBEMA / ANSI / IITC curve plots</b>	✓	✓	✓			
<b>Onboard Display</b>				✓		
<b>Live Results</b>	Using PMMeter PMWave or PMScreen		Using PMMeter PMWave or PMScreen	Using PMMeter PMWave or PMScreen	Using PMMeter or PMScreen	Using PMMeter or PMScreen
<b>Bluetooth</b>	✓	✓	✓	✓	Optional	✓
<b>Ethernet</b>	Optional	Optional				
<b>USB or Infra-Red Communication</b>	USB	USB	USB	USB	Infra-Red	USB-C
<b>Remote screen with PMScreen</b>	✓	✓	✓	✓	Optional with Bluetooth	✓
<b>Remote Communications via PMGateway</b>	✓	✓	✓	✓	Optional with Bluetooth	✓
<b>Time Synchronisation over mobile phone or PC</b>	✓	✓	✓			
<b>Memory storage for recorded data</b>	128MB	128MB	32MB	8MB (16MB & 32MB Optional)	1MB	8MB (16MB & 32MB Optional)
<b>Expandable Memory with a memory Stick or Hard Drive</b>	✓	✓	✓			
<b>Fifo mode</b>	✓	✓	✓	✓	✓	✓
<b>Self Powered (powered from Phase A)</b>	✓	✓	✓	✓	✓	✓
<b>Can be charged from the mains if necessary (12V DC charger unless otherwise specified)</b>	✓	✓	✓	✓	✓	Power Lead
<b>Portable/Fixed</b>	F	P	P	P	F	P
<b>Operating Temperature</b>	-20 to 40°C	-20 to 60°C	-20 to 60°C	-10 to 60°C	-30 to 65°C	-10 to 60°C
<b>Safety Rating</b>	300V CatIV	600V CatIV, 1000V Cat III (Fuses removed)	600V CatIV, 1000V Cat III (Fuses removed)	600V Cat III	300V Cat III	300V Cat III
<b>IP Rating</b>	IP40	IP65	IP65	IP51	Not applicable	IP40
<b>Software</b>	Pronto for Windows	Pronto for Windows	Pronto for Windows	Pronto for Windows	Pronto for Windows	Pronto for Windows