

Power Quality Selection Guide

FLUKE

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Check the Fluke Web for detailed specifications

	Fluke 435 Power Quality Analyzer	Fluke 434 Power Quality Analyzer	Fluke 1735 Power Logger	Fluke 1743 Power Quality Logger	Fluke 1744 Power Quality Logger	Fluke 1745 Power Quality Logger	Fluke 1760 Power Quality Recorder	Fluke 345 Power Quality Clamp Meter	Fluke 43B Power Quality Analyzer	Fluke VR1710 Plug-in Voltage
Applications										
1-Phase / 3-Phase	3-Phase	3-Phase	3-Phase	3-Phase	3-Phase	3-Phase	3-Phase	1-Phase	1-Phase	1-Phase
Frontline Troubleshooting	●	●						●	●	
Predictive Maintenance	●	●		●	●	●	●			●
Load Study, PQ Survey	●	●	●	●	●	●	●			
Compliance (EN50160)	●	●		●	●	●	●			●
Long-term Analysis	●		●	●	●	●	●			●
Features										
Display	Color Graphical	Color Graphical	Color Graphical	LEDs	LEDs	LCD and LEDs	LEDs	Color Graphical	B&W Graphical	LED
Voltage Channels	4	4	3	4	4	4	4 (8 without current)	1	1	1
Current Channels	4	4	4	4	4	4	4 (0 with 8 voltage)	1	1	
Included Current Probes	3000A Flexis	40A / 400A Clamps	15A / 150A / 3000A Flexis	15A / 150A / 1500A / 3000A Flexis	15A / 150A / 1500A / 3000A Flexis	15A / 150A / 1500A / 3000A Flexis	200A / 1000A Flexis	2000A	40A / 400A Clamps	
Dust/Water Resistance	IP51	IP51	IP65 (except battery housing)	IP65	IP65	IP50	IP50	IP40	IP51	
Safety Rating	1000V CAT III 600V CAT IV	1000V CAT III 600V CAT IV	600V CAT III	600V CAT III	600V CAT III	600V CAT III	1000V CAT III 600V CAT IV	600V CAT IV	600V CAT III	300V CAT II
Software	Fluke Power Log/ FlukeView	FlukeView	Fluke PQ Log	Fluke PQ Log	Fluke PQ Log	Fluke PQ Log	Fluke PQ Analyse	Fluke Power Log	FlukeView	Fluke Power Log
Battery Operation (hours)	7	7	16				5	40 minutes	24	6.5
Recording Capability										
Typical Recording Period (Days)	1 month	1 week	1 month	3 months	3 months	3 months	3 months	1 day	1 week	Up to 300 days
Memory	16 MB	8 MB	4 MB	8 MB	8 MB	8 MB	2 GB	2 MB	0.5 MB	175,000 events
MIN/MAX/AVG Logging	●	●	●	●	●	●	●	●	●	●
Flicker	●	●			●	●	●			●
Harmonics	●	●	●		●	●	●	●	●	●
Event Capture	●	●	●	●	●	●	●	●	●	●
Waveform Capture	●	●	●		●	●	●	●	●	
User-defined Logging	●			●	●	●	●			
Power of Measured Signals				●	●	●	●			
Sample Rate	20.48 kHz	20.48 kHz	10.24 kHz	10.24 kHz	10.24 kHz	10.24 kHz	10.24 kHz	9.6 kHz	12.8 kHz & 15.36 kHz	32 kHz
High-speed Capture Rate	200 kHz	200 kHz					0.5 or 10 MHz		25 MHz	
Peak Voltage	6 kV	6 kV					6 kV	1 kV	1.25 kV	2.5 kV
Transients	●	●					●		●	●
Analysis Capability										
Statistical Analysis (including EN50160)	●	●		●	●	●	●			●
Report Generator	●	●	●	●	●	●	●	●		●
Root Cause Analysis				●	●	●	●			
Accuracy										
IEC 61000-4-30 Class A Compliant	●						●			
Voltage RMS	0.1% Vnom	0.5% Vnom	±(0.5%+ 10 counts)	0.1% of range	0.1% of range	0.1% of range	0.1% Vnom		±(1% + 10 counts)	±2V 0-200V ±4V 0-270V
Current RMS (excluding clamp unless specified)	±(0.5%+ 5 counts)	±(1%+ 5 counts)	±(1%+ 10 counts)	2% of range with flex CT	2% of range with flex CT	2% of range with flex CT	1% with flex CT		±(1% + 10 counts)	



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