



POWER QUALITY ANALYZER (PQ8500 Class S)

The Future of Excellence in Power Quality Management

Authorized Partner:



ELMEASURE®

Conduct Comprehensive Power Quality Monitoring **on-the-go.**



Secured IoT Cloud Platform



PQ 8500 Class S
Power Quality Meter



Industrial/Manufacturing Plants



Data Centers



Office Spaces/Commercial Malls

Parameters Monitored

Parameters	PQ 8500	INTEGRATED PARAMETERS		ADDITIONAL FEATURES	
ACCURACY CLASS		Wh	✓	Load Efficiency, Energy Trends, Dynamic communication	✓*
Class 0.2S	✓	VAh	✓	Time synchronisation protocol: SNTP	✓*
BASIC PARAMETERS		VARh - Inductive	✓	2GB In-built Data Storage (12 Months data of all parameters at 5 min logging interval)	✓
V12, V23, V31	✓	VARh - Capacitive	✓	USB Port	✓
V1, V2, V3, V(Average)	✓	Load Hours	✓	COMMUNICATION	
A1, A2, A3, A(Average)	✓	Phase Energy & Load Hours	✓*	RS485 (MODBUS)	✓
Hz	✓	Received/Delivered (Import/Export)	✓	Ethernet (Default 1 port, 2 ports available as optional)	✓
Angle V & A, RPM, Unbalance V & A	✓	Wh - Total and Net	✓*	OPTIONAL FEATURES	
Neutral Current Measurement (Optional)	✓	VAh - Total and Net	✓*	Up to 2 Analog Inputs + 2 Digital Inputs + 2 Digital Outputs	✓
POWER PARAMETERS		ON Hours	✓*	* Available only through communication port or the monitoring software.	
W, W1, W2, W3	✓	CO2 Emission	✓*		
VA, VA1, VA2, VA3	✓	Volt Squared Hours	✓		
PF, PF1, PF2, PF3	✓	Amp Squared Hours	✓		
VAR, VAR1, VAR2, VAR3	✓	TOD PARAMETERS			
POWER QUALITY PARAMETERS		TOD Demand - Import (8 slots with programmable time)	✓*		
V & A Individual Harmonics (upto 50th in device, upto 63rd via web-browser)	✓	TOD Energy - Import & Export (8 slots with programmable time)	✓*		
VA, VA1, VA2, VA3	✓	DEMAND PARAMETERS			
PF, PF1, PF2, PF3	✓	Rising Demand (Sliding /Block - Programmable)	✓		
K-Factor, Crest Factor	✓	Forecast Demand	✓		
High Low - Instantaneous	✓*	Maximum Demand	✓		
Voltage Dips/Swell (4 cycles), RVC, Interruptions	✓	Demand Profile - 4 High & 4 Low	✓*		
High/Low - Last Minute	✓*				
Power Cycles	✓				
Total Even Harmonic Distortion (TEHD)	✓				
Total Odd Harmonic Distortion (TOHD)	✓				
Power THD	✓				
Total Demand Distortion (TDD)	✓				

Technical Specifications

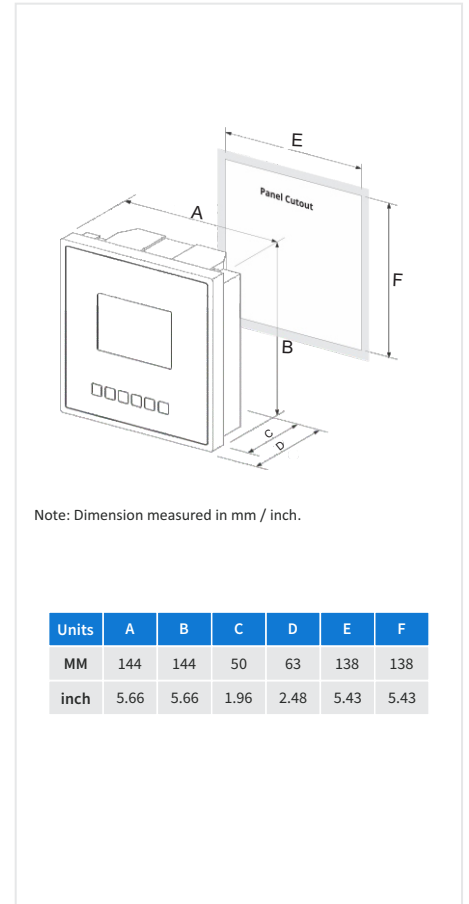
Technical Parameters	Specifications	ENVIRONMENTAL CHARACTERISTICS	
GENERAL CHARACTERISTICS		Operating temperature	-10°C to +55°C (14°F - 130°F)
Display type	3.5-inch TFT Display	Storage temperature	-25°C to +70°C (-13°F - 158°F)
Sensing / Measurement	True RMS AC Measurement, 4 Quadrant power & energy	Humidity	5% to 95% non-condensing
Rated Voltage Input (4 differential voltage channels)	50–600 VLL AC, 415V LL Nominal & Primary Programmable upto 999 kV	Altitude	Below 2000 meters
Rated Current	10 mA–6A	Measurement category	CAT III (As per IEC 61010)
Operational Frequency	45-65 Hz	Pollution degree	2 (As per IEC 61010)
Poles description	3P, 3P + N	PROTECTION CLASS	
Measured Accuracy Class	Class 0.2S as per IEC 62053-22	Ingress protection	IP 51 (Front facia)
Permissible overload	120%, Burden: 0.2VA per phase	COMMUNICATION	
External fuse rating	2 A (voltage input), 200 mA (current input)	RS485 Modbus	Device ID: 1-247, Parity: Odd/Even/None (preferred Even)
CT/PT Ratio max.	2000 MVA (Programmable)		Baud rate: 9600 bps to 115200 bps
Control Power	80–300V AC/DC	Isolation: 2000 volts AC isolation for 1 minute between communication & other circuits.	
Power Consumption	18VA at 415 VAC		
Data update rate	200ms (Basic and Power), 1 sec (Other parameters)		
Wiring configuration	4-Wire, 3-Phase Wye, 3-Phase (Floating or Grounded) Delta		
Power Quality Reporting	As per IEC 61000-4-30 (Edition 3), EN 50160		

Technical Parameters	Specifications
Ethernet	LAN port: 10/100 Base-T, Wi-Fi
	Protocol: TCP/IP, IPV4, MQTT, DHCP, DNS, Modbus TCP(Multi-client polling), Modbus RTU over TCP
	Protection Ethernet: Magnetic protection (Ethernet port 1.5 kV), Surge protection
	Data storage: 2GB
	Configuration: Web server

Mechanical Specifications

Parameters	Specifications
MECHANICAL CHARACTERISTICS	
Weight	Unpacked: 1.32 lbs Packed: 1.98 lbs
Dimensions	5.66 Inch × 5.66 Inch × 2.48 Inch
Panel Cut-out	5.43 Inch × 5.43 Inch
Torque at terminals	0.5 N-m
Wire-gauge at terminals	16–12 AWG (2.5mm ²)
STANDARDS	
Construction	IEC/EN 61010-1 EDITION 3, CAT III, 300V LN/600V LL, Protection Class II
Standards	UL E530665, IEC/EN 62052-11
Power Quality Monitoring	IEC 61000-4-30, IEEE 519-2014, IEEE 519-2022, EN 50160, ITIC Curve
Harmonics/Interharmonics Monitoring	IEC 61000-4-7, IEEE 519-2014, IEE 519-2022
Harmonics Emissions	IEC 61000-3-6

ELECTROMAGNETIC COMPATIBILITY	
Electrostatic discharge	IEC 61000-4-2
Immunity to electromagnetic RF fields	IEC 61000-4-3
Conducted immunity	IEC 61000-4-6
Immunity to magnetic fields	IEC 61000-4-8
Immunity to voltage dips and interruptions	IEC 61000-4-11
Immunity to surge waves	IEC 61000-4-5
Conducted and radiated emission	CISPR-22



Authorized Partner:



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ABEZ North America, Inc.
 3616 Broadway, Fort Myers, FL 33901

Direct No- (239) 689-7412
 Main Company No - (888) 451-2824
 Fax. (239) 790-0111

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Visit: admin@abez.us