

# POWER QUALITY ANALYZER *(PQ 8800X Class A)*

The Future of Excellence in Power Quality Management

Authorized Partner:



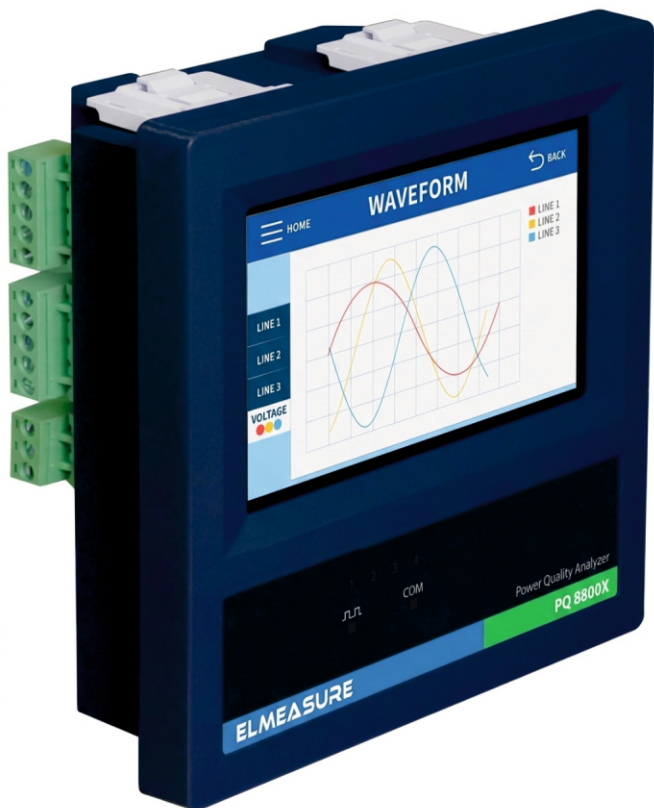
ELMEASURE®

# Precision and Clarity Meets Elegance in a 5-inch TFT Display.



## Experience Excellence in Every Pixel.

At the heart of the PQ 8800X's user experience is its 5-inch TFT high-contrast graphical display, a marvel of engineering designed to redefine clarity in device monitoring. This isn't just a display; it's your window to precision and performance.



## Superior Clarity

Whether you're in a brightly lit commercial space or a dimly lit industrial setting, every aspect of the PQ 8800X is visible in stunning detail, thanks to the high-contrast display. Monitoring Harmonics, tracking voltage fluctuations, or analyzing power quality reports, the display brings every detail to life with unmatched clarity. PQ 8800X ensures your power quality monitoring is unhindered by environmental factors.

## Enhanced Accessibility

Whether you're in a brightly lit commercial space or a dimly lit industrial setting, every aspect of the PQ 8800X is visible in stunning detail, thanks to the high-contrast display. Monitoring Harmonics, tracking voltage fluctuations, or analyzing power quality reports, the display brings every detail to life with unmatched clarity. PQ 8800X ensures your power quality monitoring is unhindered by environmental factors.

PQ 8800X is a perfect blend of functionality and design, where advanced technology and user-centric design converge. Beyond just a tool, it is a comprehensive solution for power quality analysis, highlighted by its exceptional 5-inch TFT display, ensuring clarity and ease of use.

# Parameters Monitored

Parameters	PQ 8800X
<b>ACCURACY CLASS</b>	
Class 0.2S	✓
<b>BASIC PARAMETERS</b>	
V12, V23, V31	✓
V1, V2, V3, V(Average)	✓
A1, A2, A3, A(Average)	✓
Hz	✓
Angle V & A, RPM, Unbalance V & A	✓
Neutral Current Measurement (Optional)	✓
<b>POWER PARAMETERS</b>	
W, W1, W2, W3	✓
VA, VA1, VA2, VA3	✓
PF, PF1, PF2, PF3	✓
VAR, VAR1, VAR2, VAR3	✓
<b>TOD PARAMETERS</b>	
TOD Demand - Import (8 slots with programmable time)	✓*
TOD Energy - Import & Export (8 slots with programmable time)	✓*
<b>DEMAND PARAMETERS</b>	
Rising Demand (Sliding /Block - Programmable)	✓
Forecast Demand	✓
Maximum Demand	✓
Demand Profile - 4 High & 4 Low	✓*

POWER QUALITY PARAMETERS	
V & A Individual Harmonics (upto 50th in device, upto 127th via web browser)	✓
VA, VA1, VA2, VA3	✓
PF, PF1, PF2, PF3	✓
K-Factor, Crest Factor	✓
High Low - Instantaneous	✓*
Voltage Dips/Swell (4 cycles), Flicker, RVC, Transients (49µs) & Interruptions	✓
High/Low - Last Minute	✓*
Power Cycles	✓
Total Even Harmonic Distortion (TEHD)	✓
Total Odd Harmonic Distortion (TOHD)	✓
Power THD	✓
Total Demand Distortion (TDD)	✓
<b>ADDITIONAL FEATURES</b>	
Load Efficiency, Energy Trends, Dynamic communication	✓*
Time synchronisation protocol: SNTP	✓*
Communication service: SMTP e-mail notification	✓*
In-built Data Storage (4GB)	✓
USB Port	✓

INTEGRATED PARAMETERS	
Wh	✓
VAh	✓
VARh - Inductive	✓
VARh - Capacitive	✓
Load Hours	✓
Phase Energy & Load Hours	✓*
Received/Delivered (Import/Export)	✓
Wh - Total and Net	✓*
VAh - Total and Net	✓*
ON Hours	✓*
CO2 Emission	✓*
Volt Squared Hours	✓
Amp Squared Hours	✓
<b>COMMUNICATION</b>	
RS485 (MODBUS)	✓
Ethernet (Default 1 port, 2 ports available as optional)	✓
<b>OPTIONAL FEATURES</b>	
Up to 2 Analog Inputs+2 Digital Inputs + 2 Digital Outputs	✓

\*Available only through communication port or the monitoring software

# Technical Specifications

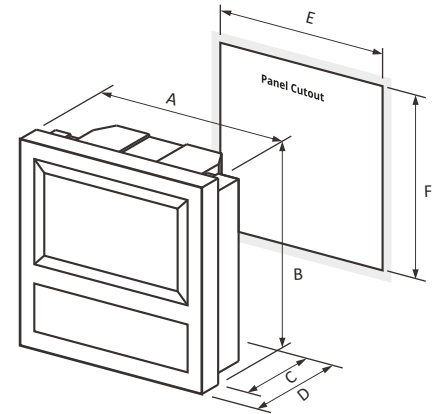
Technical Parameters	Specifications
<b>GENERAL CHARACTERISTICS</b>	
Display type	5-inch Capacitive Touch TFT Display (Res: 800x480)
Sensing / Measurement	True RMS AC Measurement, 4 Quadrant power & energy
Rated Voltage Input (4 differential voltage channels)	50 600 VLL AC, 415V LL Nominal & Primary Programmable upto 999 kV
Rated Current	10 mA–6A
Operational Frequency	45-65 Hz
Poles description	3P, 3P + N
Measured Accuracy Class	Class 0.2S as per IEC 62053-22
Permissible overload	120%, Burden: 0.2VA per phase
External fuse rating	2 A (voltage input), 200 mA (current input)
Control Power	80–300V AC/DC
Power Consumption	10VA nominal
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, IEEE 519-2014, ITIC Curve

ENVIRONMENTAL CHARACTERISTICS	
Operating temperature	-10°C to +55°C (14°F - 130°F)
Storage temperature	-25°C to +70°C (-13°F - 158°F)
Humidity	5% to 95% non-condensing
Altitude	Below 2000 meters
Measurement category	CAT III (As per IEC 61010)
Pollution degree	2 (As per IEC 61010)
<b>PROTECTION CLASS</b>	
Ingress protection	IP 51 (Front facia)
<b>COMMUNICATION</b>	
RS485 Modbus	<ul style="list-style-type: none"> <li>Device ID: 1-247, Parity: Odd/Even/None (preferred Even)</li> <li>Baud rate: 9600 bps to 115200 bps</li> <li>Isolation: 2000 volts AC isolation for 1 minute between communication &amp; other circuits.</li> </ul>
Ethernet	<ul style="list-style-type: none"> <li>LAN port: 10/100 Base-T, Wi-Fi</li> <li>Protocol: TCP/IP, IPV4, MQTT, DHCP, DNS, Modbus TCP(Multi-client polling), Modbus RTU over TCP</li> <li>Configuration: Web server</li> <li>Protection Ethernet: Magnetic protection (Ethernet port 1.5 kV), Surge protection</li> <li>Data storage: 4GB</li> </ul>

# Mechanical Specifications

Parameters	Specifications
<b>MECHANICAL CHARACTERISTICS</b>	
Weight	Unpacked: 1.32 lbs Packed: 1.98 lbs
Dimensions	6.1 inch x 6.1 inch x 2.48 inch
Panel Cut-out	5.43 inch x 5.43 inch
Torque at terminals	0.5 N-m
Wire-gauge at terminals	16-12 AWG (2.5mm <sup>2</sup> )
<b>STANDARDS</b>	
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
Flicker	IEC 61000-4-15 & IEEE 1453

<b>ELECTROMAGNETIC COMPATIBILITY</b>	
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
Fast transient	IEC 61000-4-4
Conducted and radiated emission	CISPR-22



Note: Dimension measured in mm / inch.

Units	A	B	C	D	E	F
MM	155	155	50	63	138	138
inch	6.1	6.1	1.96	2.48	5.43	5.43



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