

Technical Specifications	Details	
Power Supply	Input Voltage	19Vdc - 30Vdc
	Power Rating	Typical 15VA, max 40VA For 4 PQNs (15 feeders)
	Backup Power (Built-in)	Up to 5 sec
Measurement Channels	Input Voltage	30 to 690Vac LN (AC/DC)
	Voltage Measurement Channels	Differential Input
	Overvoltage Withstand	Max 1000Vac continuous
Recording	CAT rating (IEC 61010-1)	Rogowski coil (600A & 3000A/5000A) 1A/5A
	Sampling rate	32, 64, 128, 256, 512 Sample/Cycle
Communication	Storage	Up to 128GB
	Ethernet Port1	10/100/1000 Mbps
	Ethernet Port 2 & 3	10/100/1000 Mbps (Ethernet Daisy Chain)
	RS485	Up to 115,200 bps
	Cellular (Optional)	Mini PCIE 4G/5G or IoT communication
	Wi-Fi (optional)	802.11n (2.4Ghz-300Mbps)
Communication Protocols	Others	DCC 2.0 (toPQN)
	TCP	sFTP, SNTP
Device Time Synchronization	Serial	RS485, Modbus_RTU*
Web Interface	RTC	SNTP, GPSI
Firmware	uWeb 1.0	HTTP
Notification Alarm		OTA Firmware Update
Hardware	Dimensions	PQ Notification Alarm
	Weight	220mm(L) x 200mm(W) x 55mm(H)
	IP Rating	PQAI2: approx. 1150g, PQN: 170g
	Material	IP65*
	Operating Temperature	ABS/Nylon
Operating Conditions	Storage Temperature	-20 to +55°C (-4 to +131°F)
	Relative Humidity	-40°C to +80°C (-40F to +176°F)
	Operating Altitude	0 to 95% non-condensing
Expansions	Power Quality Nodes (PQN)	≤2000m
	Analog Input/ Output Card	Max. 4PQN per PQAI2, each PQN can monitor 3 three-phase current or 15 single-phase current
	Digital Input/ Output Card	Max. 16AI and 16AO*
	MiniUPS	Max. 64DI and 32DO*
Led Indicators		Connect NiMH Miniups for up to extra 15mins backup power supply to the system
		1. Power Supply 4. Spare
		2. Device Status 5. 4G/5G Status
		3. GPS Status



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POWER QUALITY, REIMAGINED



IEC 61000-4-30 CLASS A



IEC 61000-6-5 EMC



IEC 62586-2:2017

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PQAI2

POWER QUALITY ANALYZER INTELLIGENT II

EARLY BIRD OFFER



Multi-channel power quality analyzer



Expandable to 15 three-phased circuit monitoring



Advance cyber security protection



Open protocol for 3rd-party system integration

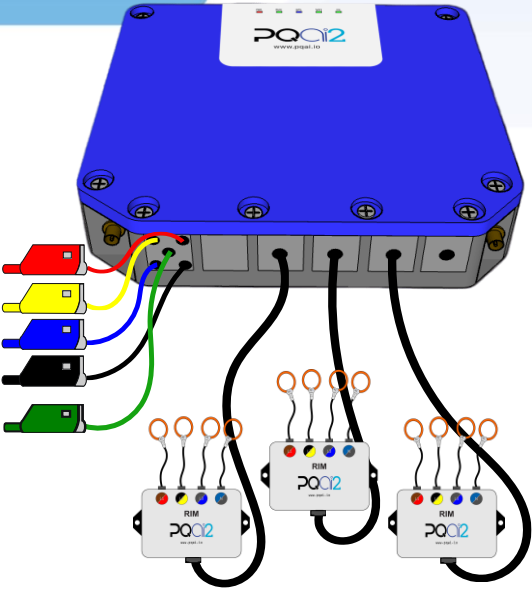


Compact design for deployment in tight spaces



Optional 4G/5G connectivity

APPLICATIONS & USE CASE



Grid PQ Network Monitoring

- HV, MV and LV Grid network monitoring
- Affordable and scalable solution
- Smart Grid enabler
- Network disturbance SOE Monitoring
- Fast fault location detection and remote analysis of LV network
- Breaker and protection relay status monitoring
- Smart Grid cyber security protection
- Optional transient capturing



EV Charging Station

- Monitor quality of supply
- 2-in-1 Power Quality monitoring and revenue grade energy monitoring for EV charging billing application
- Power Quality event investigation
- Lower insurance premium for EV charging station operator
- E2G electric vehicle to Grid application



Renewable Energy & Energy Storage System

- Generation stability and pre-fault Monitoring
- 2-in-1 Power Quality monitoring and revenue grade energy monitoring
- Energy storage charging control and Monitoring
- Corrective maintenance of inverter and energy storage system
- Harmonic monitoring and study



Critical Facilities & Asset Management

- Affordable large scale Power Quality & energy monitoring for data center, oil & gas, semiconductor, banking and other critical facilities
- Preventive and corrective maintenance
- Quality of supply monitoring
- Harmonic monitoring and study
- Power Quality event sequence and waveform analysis



PQAi2 is a multi-circuit Power Quality Analyzer with built-in IoT. The onboarding process of PQAi2 is revolutionary and unprecedented.



Based on IEC 61000-4-30, Ed 3 Class A, PQAi2 allows expansion of up to 15 three-phase or 45 single-phase circuits, making it the most cost-effective Class A Power Quality Analyzer currently available in the market.



At only 5.5cm thick and 22cm wide, PQAi2 can fit easily into tight spaces such as overground box, feeder pillar, switchboards and substations.



PQAi2 is upgradable with 4G/5G network capabilities to allow communication between devices installed at remote locations and the central control. The GPS onboard PQAi2 allows time synchronization & pinpoint location of installed devices.



With built-in backup power and optional NiMH-based mini-UPS, PQAi2 has the safest backup power solution so that you will not lose any critical data during a PQ event.