

## PQube® 3 Power Analyzer Portable 480V



### Overview

The PQube 3 Portable combines the powerful monitoring and communication capabilities of the PQube 3 Power Analyzer with the quick install feature of a portable instrument. It detects High-Frequency transients up to 4 MHz and records 2 kHz to 150 kHz conducted emissions.

Designed for quick installation with Flexible CTs, fused voltage cables, and auto-detects frequency, nominal voltage, and wiring configuration.

The PQube 3 Portable is easy to install, wire, and operate. It can be used stand alone with a USB drive for configuration and downloading measurement data. Remote communications are an option to deliver event notifications and daily, weekly, and monthly reports directly.

### Features

- Plug and play solution with automatic voltage detection, quick-connect CTs & fused voltage leads
- Modem ready option for remote monitoring
- Powering Options:
  - Self power from 360 to 480 Vac voltage inputs
  - Connect external 24 Vdc power supply from 120 to 240 Vac outlet
  - 1 hour battery power backup
- Power Quality Class A IEC 61000-4-30 Ed3\*
- Monitor temperature, humidity, pressure, and acceleration with ENV2 environment probe option

### Applications

- Qualify sites before installing critical equipment
- Troubleshoot power issues at the point of common coupling or close to equipment
- Survey and compare power quality at various sites

### RESULTS



- **Real-time readings via protocols**  
Modbus, SNMP, BACnet, DNP3.0
- **Event recordings and graphs**  
Text, CSV, GIF, and IEEE 1159-3 PQDIF
- **Daily, weekly, monthly, trends and graphs**  
Text, CSV, GIF, and IEEE 1159-3 PQDIF

## CONNECTIONS AND WIRING

A	L1, L2, L3 voltage inputs	
B	Neutral terminal-optional depending on your power configuration	
C	Earth terminal-Functional. Used as the reference point for voltage measurements	
D	Current transformer inputs	
E	10/100 Ethernet RJ-45 port. 48 V PoE compatible	
F	(2) Standard USB ports for use ONLY with ENV2 environmental probes	
G	20 Vdc AUX power output (4 W max)	
H	PQube 3 Analog & Digital I/O terminals	
I	24 Vdc power supply input	

## Specifications

TECHNICAL SPECIFICATIONS	
Dimensions of PQube 3 Portable (L x W x H)	8.5 X 6 X 12 in (21.59 X 15.24 X 30.48 cm)
Weight of PQube 3 Portable	Approx 10 lbs (4.5 kg)
Dimensions of Carrying Case (L x W x H)	22 X 9.5 X 13.5 in (55.88 X 24.13 X 34.29 cm)
Weight with Accessories & Carrying Case	Approx 25 lbs (11.3kg)
Operating Environment	Temperature: -4 to +113° F (-20 to +45° C) Humidity: 5 to 95% RH (inside use) Altitude: <2000 m above sea level
Power Supply	Self Powering: 480 Vac max and range 360 to 480 Vac from voltage inputs External Power Supply: 120 to 240 Vac input to 24 Vdc output
Backup Power	Up to 1 hr (configurable)
Internal Memory	32 GB (holds over a year of data, depending on number of events)
Data Backup	USB 2.0 thumb drive; External microSD card (not included)
Clock Synchronization	SNTP, NTP
Output File Types	GIF, text, CSV/Excel, and IEEE 1159-3 PQDIF



## TECHNICAL SPECIFICATIONS (CONTINUED)

Current Inputs	(8) inputs I1 to I8 (I1 to I3 and I6 to I8 load currents, I4 neutral, and I5 ground) 3-pin Bayonet style receptacles (quick connection) Flexible CTs (Rogowski coils): Up to 3000 A primary (I1 to I4) Split-core CTs: Up to 5 A primary (I5 ground current) Secondary Range: 0.333 Vrms (low range) to 10 Vpk (high range) Impedance: 33 kΩ
Voltage Inputs	Rated up to 480 Vac, 50/60 Hz Mains Connections: L1, L2, L3, Neutral, and Earth
Communication Ports	Ethernet port RJ-45 10/100 (optional wireless and cell modem)
Communication Protocols	Modbus/TCP, DNP 3.0, SNMP with traps, BACnet, FTP or HTTP (secure FTPS and HTTPS), and email

## ACCESSORIES

Accessories Included	(1) Carrying case (1) Power supply with power cable 100 to 240 Vac input, 24 Vdc output (4) Flexible CTs (Rogowski coils, up to 3000 A, 0.333 V output) (1) Split-core 5A CT (Up to 5 A, 0.333 V output) (3) Fused voltage sensing leads (banana jacks), spare fuses (2) Non-fused cables with banana jacks and alligator clips (1) Hook-and-loop mounting strap (1) Screwdriver
Modem Ready (Option)	Modem Mounting Dimension (L x W x H): 3.75 in x 3.00 in x 1.05 in - Recommend Teltonika RUT240 modem (2) indoor/outdoor enclosure-mounted antennas Internal wiring and 24Vdc modem power (1) Teltonika RUT240 modem (option)

## Order Information

Part Number: PQ3iaB-Portable-4V8I-480V-000-XXXX

Part Number: PQ3iaB-Portable-4V8I-480V-M24-XXXX (modem ready option)

## Contact Us

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