Data Sheet

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All our energy, in your power

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

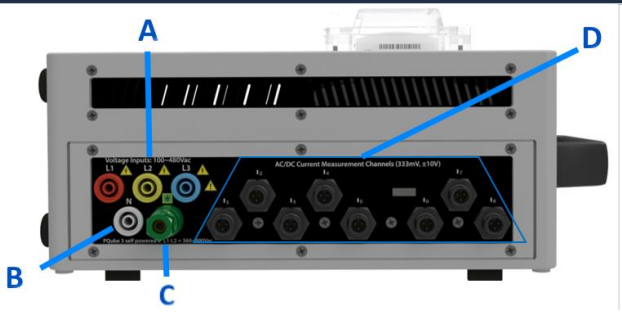
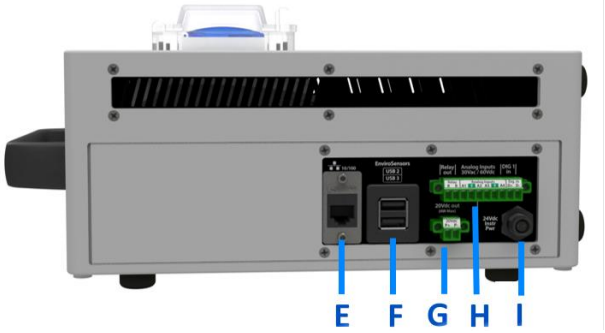
RESULTS



- **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

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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)

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TDS # 880-000140
Version 4 – 10/10/2022

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