PQube® 3 Power Analyzer and Component **Quick Start Guide**

This manual is the property of Powerside. It contains information and illustrations of a technical nature. It is not to be disclosed without the written consent of Powerside.

> **CAUTION:** Only appropriately trained, licensed, and certified electricians who understand the contents of this manual and who have received safety training to recognize and avoid hazards involved are authorized to work with this equipment.

Hardware Required

- 35 mm DIN Rail
- USB thumb drive
- PM1 module
- PM2 module
- UPS 1 module
- PQube 3 + connectors
- Current transformer (CT)
- EnviroSensor probes (optional)

Step 1
Disconnect mains and verify the power is off.

Step 2
Mount the DIN rail at the desired location.

Step 3
Individually snap a PQube® 3 and modules as applicable onto a DIN rail.

> **IMPORTANT:** a PM1/PM2 snaps onto the right side of a PQube 3. UPS1 snaps onto the right side of a PM1/PM2.

Step 4
Attach each module by pushing them together. Ensure the connections are snug .

Step 5
If installing EnviroSensor® ENV 2 probes, plug them into the ports labeled USB2 and USB3.

Step 6
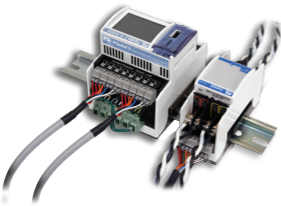Connect terminals and mains AC voltage wires to the PQube 3.

Step 7
Optional - **install current transformers** (CT)

7.1) For Powerside split-core CTs (0.333V), connect the wires to the PQube 3 current terminals. If using Powerside split-core CTs, the white wire is (+), and the black wire is (-).

7.2) For CTs with 1A or 5A secondary, use the CTI-1A or CTI-5A module. Join the CTI terminals to the 0.333V current inputs of the PQube 3.

Step 8

Apply power to the PQube 3. There are 3 ways to power the device:

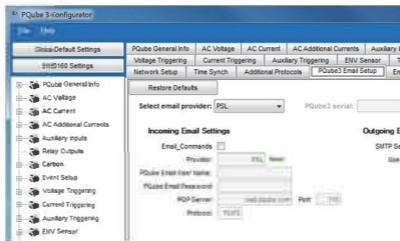**1.** Connect 24VAC or 24 ~ 48VDC to the front terminal (right side).

2. Connect 100 ~ 240VAC to the AC input of your PM1 or PM2 module.

3. Plug in network cable from the Power over Ethernet (PoE) switch.

Step 9

Configure the PQube 3 using the Configurator program available on the USB thumb drive or download it here (need url). The **Setup.ini** file configures network settings, transformer ratios, and all other settings.

Step 10

Apply the **Setup.ini** file by coping from the USB thumb drive . The **Setup.ini** can also be sent via email, the web page, or FTP.

Step 11

Reboot the PQube 3 to load the updated settings.
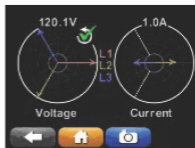
Step 12

Verify the installation:

12.1) Check that the PQube 3 has detected the Mains voltage. From the PQube 3 main menu, chose System, Configuration, Power Configuration.

12.2) Verify the voltage, current, and power readings are detected. From PQube 3 main menu, choose Meters.

12.3) Check the phase rotation has been detected. From the main Menu, choose System, Configuration, Vectors. A green checkmark will be visible.

12.4) For all error messages, double check the installation and validate the settings in the **Setup.ini** file.

Congratulations!

The PQube 3 now measures and will automatically begin recording events and generating reports.

Need Technical Support?
support@powerside.com
or 1 (510) 522-4400

For information, software updates, and manuals, visit powerside.com

Join our mailing list to get the latest tips n tricks at support@powerside.com