
PORTABLE POWER CELL

MODEL PPC-3

**Handle the Clamp-On Probes Carefully.
Don't Snap Them Shut.**

The Portable Power Cell Monitor measures power. It has 3 Hall effect clamp-on current sensors and 3 voltage sensors.

- It can measure power on the output of a variable frequency drive.
- It also works on fixed frequency and high frequency power.
- By using 2 of the 3 sensors it can measure Single Phase or DC Power.
- It can measure regenerative power.

Six Full Scale Horsepower and six Full Scale Kilowatt selections are available for maximum sensitivity.

The Digital Display has Peak Emphasis. It displays the peak load long enough to be easily read. This is very helpful for capturing fast moving events and prevents "dancing digits."

Response is very fast - 15 milliseconds (compared with 500 milliseconds for a typical watt transducer). Response can also be slowed, if desired, to show average power.

Two Analog Outputs: 0-10 Volts DC 4-20 Milliamp

- Chart Recorder
- Data Logger
- Computer

TO HOOK UNIT UP

1. Turn OFF Power to the equipment to be tested.
2. Clamp on the current probes.
 - Arrow MUST point toward load.
 - Don't snap the clamps.
 - For Single Phase or DC, use only 2 probes.
3. From a convenient location, attach a voltage clip on each phase. These MUST match the color code on the current clamps. For Single Phase or DC Power, use the 2 clips that match the current probes.

Blue - Blue

Red - Red

Yellow - Yellow

NOTE: When measuring the output of variable frequency drives, locate both current and voltage sensors on the output side.

4. Ground the unit with the green clip.
5. Plug the PPC-3 into a 120 Volt AC supply.
6. Select the Full Scale that gives the desired sensitivity.
7. Response Adjustment. The response can be slowed to show Average Power.
8. Analog Outputs. Chart recorders, external meters and computers can be driven with the two Analog Outputs. These outputs are powered by the PPC-3. **Don't hook external DC Voltage to the Outputs!** Full Scale of the Analog Output matches the Full Scale that you have selected.
 - 0-10 Volt Output: Minimum connected impedance 2000 Ohms.
 - 4-20 MA Output: Maximum connected impedance 500 Ohms.
9. Regenerative Power. During regeneration a minus sign will show to the left of the Digital Load Display.
 - The 0-10 Volt DC Analog Output will go minus.
 - The 4-20 MA Analog Output will stay at 4 MA.

TROUBLE SHOOTING

Low Sensitivity -

Check direction of current sensing probes.

The arrow must always face the load.

Check voltage sensor clips. The wire color must agree with the color band on the current sensing probes.

The PPC-3 can be returned to Load Controls, Inc. for periodic recalibration.



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