

## Using 3-Phase Clamp-On Probes with the 330 Powermate / 430 Current Source

**Note:** The Model 430 Current Source is connected to the Powermate by several connectors that supply control signals from the Powermate and act as current sensors. To use 3-phase clamp-on probes for power measurements, these cables must be removed and the probes connected directly to the Powermate using normal test cables. To use clamp-ons for CT ratio testing, the Model 430 can be used normally with the probe connected to the “5 Amp” input.

### To Remove the 430 Current Source and Activate the Clamp-on Probes:

- 1) Disconnect the 430 current plugs from any active current source.



- 2) Disconnect the two (2) Model 430 Current connectors: I(a,n) {Red/White} and I(b,c) {Black/Yellow} from the Powermate connector panel (left side).



- 3) Connect the separate current cables to the Powermate: I(a,n) {Red/White} and I(b,c) {Black/Yellow}.



- 4) Disconnect the Model 430 Burden connector from the Powermate (top connector, second from left). Connect the separate Burden cable to the Powermate {violet}.



- Connect the (3) Clamp-On probes to the color coded ends of the separate current cables. Color codes are: A = Red B = Black C = Yellow.



- Apply power to the Powermate and press the <CTRL> key to enter the probe setup menu. Then press the <4> key until the status region shows "CAL=\*P604" (or "CAL=\*P800") which indicates the Powermate is set to recognize the clamp-on probe set.



**CAL=\*P604**  
or  
**CAL=\*P800**

- Use the clamp-on probes for normal 3-phase power analysis. Use the direct burden cable (violet) as required for CT testing.

**To Remove the Clamp-On Probes and Activate the 430 Current Source:**

- Disconnect the clamp-on probes from any active current source.
- Disconnect the separate current cables from the Powermate: I(a,n) {Red/White} and I(b,c) {Black/Yellow}. Connect the two (2) Model 430 Current connectors: I(a,n) {Red/White} and I(b,c) {Black/Yellow} to the Powermate connector panel (left side).
- Disconnect the separate Burden cable from the Powermate {violet}. Connect the Model 430 Burden connector to the Powermate (top connector, second from left).
- Apply power to the Powermate and press the <CTRL> key to enter the probe setup menu. Then press the <4> key until the status region shows "CAL=MX430" which indicates the Powermate is set to recognize the Model 430 Current Source.
- Use the Model 430 current plugs for normal 3-phase power analysis and for CT testing.