

Zion

3 Wire, No Neutral 208 Volt, 3 Phase Delta Meter

The Zion power meter is used to measure electric power in a three phase delta configuration without a neutral. The Zion meter is accurate only if the loads are balanced across two of the legs. If a neutral is present, the Yellowstone meter is suggested as it automatically compensates for unbalanced loads.

Available Models

Zion 200

Stand-alone power meter capable of measuring the power used in a 208 volt, delta configuration electrical system where no neutral is present. Loads up to 200 amps are accommodated.

Zion 100*

Stand-alone power meter capable of measuring up to 100 amps in each circuit.

Zion Plus 200*

Computer-readable power meter capable of measuring up to 200 amps in each circuit. Power line communications only.

Zion Plus 100*

Computer-readable power meter capable of measuring up to 100 amps in each circuit. Power line communications only.

Zion Plus IO 200*

Computer-readable power meter capable of measuring up to 200 amps in each circuit. Power line or twisted pair communications. Three I/O ports.

Zion Plus IO 100*

Computer-readable power meter capable of measuring up to 100 amps in each circuit. Power line or twisted pair communications. Three I/O ports.

* Special Order Item. Not normally stocked.



The Zion watt-hour meter

The current transformers (CTs) are the round donuts on the left with the wires coming out of them. The electromechanical display counter is shown at top center. The meter consists of a Model 2010 or 2210 electronics module, two current transformers, and one electro-mechanical display counter.

Installation Considerations

The Zion power meter uses just two current transformers to measure the power in a three wire system by using one of the hot legs as the reference. Use a clamp-on ammeter to determine the current flow in each leg. If the current in two of the legs is not close to each other (within 5%), you have an imbalanced load and you will not get accurate results. If two are the same and one is different, choose the different one to be the reference and connect it to 200-300VAC #3. You will not install a CT on this leg. Install CTs on the other two legs and connect them and the voltage leads in the same manner as described in the basic installation sheet.

Certifications

The Zion meters have not been tested to UL or CSA safety standards.

The individual elements have been tested to comply with ANSI C12.1(1995) accuracy standards, but the accuracy is the meter is affected by unbalanced loads.

Suggested Options

Model 4925 Mounting plate for electro-mechanical display

Davidge Controls
583 N Refugio Rd
Santa Ynez CA 93460-9701
www.davidgecontrols.com

**EZ
METER**

Toll free (800) 824-9696
Direct (805) 688-9696
Fax (805) 688-3306
moreinfo@davidgecontrols.com