



Specifications:

This electrical metering product is designed to indicate the power draw from an auxiliary power source, such as a generator, through a transfer switch or panel.

Model	Absolute Maximum Electrical Ratings			
Number	Generator Power	Phase Current	L-N voltage	L-L voltage
EM5001	5kW	20 amps	125 VAC	250 VAC
EM7501	7.5kW	30 amps	125 VAC	250 VAC
EM1251	12.5kW	50 amps	125 VAC	250 VAC

Operation:

Voltages from the generator, voltages from the generator current sensors, and a voltage from the utility mains are applied to the appropriate inputs to the meter. The meter acquires these signals, performs scaling and other math functions, and outputs voltage and real power (wattage) results to the display board by lighting particular LED segments.

The outboard LEDs display generator voltage. A green LED indicates the generator voltage is within +/- 5% of 125 VAC, a yellow LED indicates within +/- 10%, and a red LED indicates a voltage greater than +/- 10%.

The inboard LED bar graphs display generator power. The segments are marked with their appropriate wattages to a resolution of approximately 5% of maximum power. Segments are green up to 85% of maximum power. Between 90% and 100%, the segments are yellow. A red segment indicates power draw above 100%.