

Real Power Sensor



Applications

The Real Power Sensor is used with Woodward speed controls to measure generator output power and provide a kilowatt signal to the speed control.

Features of each model:

8272-387 provides kilowatt signal, readout meter drive, load sharing, speed and phase matching (SPM) synchronizer input, and isoch/droop operation (see manual 82350).

8272-394 provides kilowatt signal and readout meter drive (see manual 82350).

8272-695 provides kilowatt readout signal which can be used as a generator load signal to a meter, KW limiter, or other device; speed and phase match (SPM) synchronizer input; and kilowatt error signal to be used as input to a speed control providing for isochronous load sharing, KW droop, and base loading application (see manual 82048).

Description

The Real Power Sensor is a solid state electronic device housed in a metal chassis intended for installation in a prime mover control cabinet.

The unit contains its own power supply and is powered separately from the speed control.

The Real Power Sensor constantly monitors the generator output voltage and current with transformers. These transformers are selected to provide potential voltage of 115 Vac or 230 Vac at nominal generator voltage. The current transformers are selected to provide a 5 A secondary current at full generator output.

The Real Power Sensor provides a signal to the speed control that is proportional to the output power of the generator.

Specifications

Power Source Potential Voltage Range Current Transformer Range

95-130 or 190-260 Vac, 50 or 60 Hz 80-150 or 160-300 Vac, 45 to 60 Hz. 5-amp secondary current at full generator output

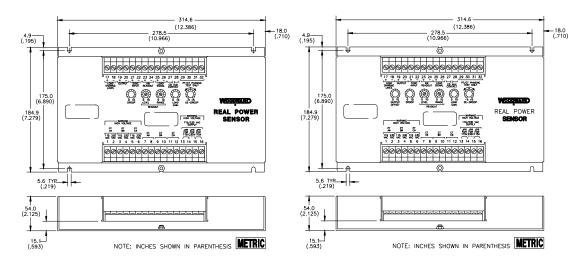
Works with leading or lagging power factor to 0.2 14 W typical (20 W maximum)

Power Consumption 14

- signal
- Internal power supply

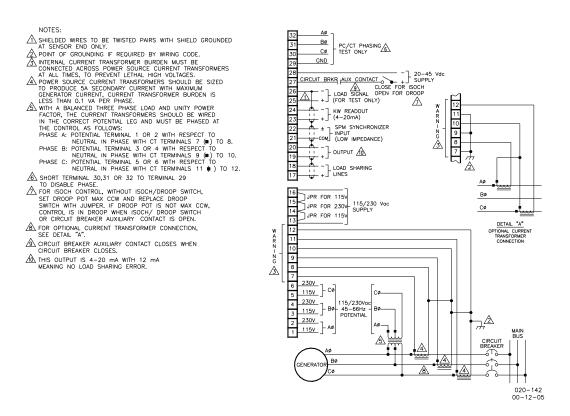
Watt readout

- KW error signal for KW droop, base loading, isochronous load sharing
- Input for speed, phase match synchronizer



Outline Drawing (8272-387, -394 left; 8272-695 right)

(Do not use for construction)



Plant Wiring Diagram



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