

# Generator Load Sensor

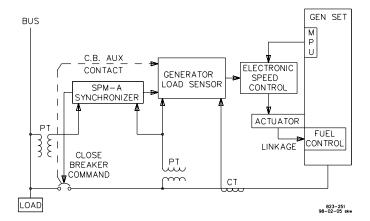


### **APPLICATIONS**

The Generator Load Sensor is used to provide droop and isochronous load sharing for generator applications which use Woodward 701, EPG, and 2301A speed controls. It has an SPM-A synchronizer input and shares load with all Woodward load sensors and load sharing and speed controls.

# **DESCRIPTION**

The Generator Load Sensor receives input from current transformers (CTs) and potential transformers (PTs), to calculate power from the generator, assuming constant voltage. It generates an output which biases the speed reference of the speed control. The Generator Load Sensor uses paralleling lines to ensure proportional load sharing when generators are isochronously paralleled.



SYSTEM BLOCK DIAGRAM SHOWING OPTIONAL SPM-A SYNCHRONIZER

- Adds Gen Set Load Sharing Capability to Woodward Speed Controls
- CSA Certified
- Allows Automatic Speed/Phase Matching
- Allows Automatic
   Generator Loading
   with Speed Controls



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## **SPECIFICATIONS**

#### **INPUTS**

terminal 18 to 19 for 190 to 260 Vrms (power

consumption 5 VA).

produce essentially O burden.

Precise Frequency Control, Automatic Generator Load

Control.

Droop...... Selected by opening terminals 15 to 16.

#### **PERFORMANCE**

Load Sharing Accuracy......  $\pm$  5% of rated load with speed settings matched.

#### PHYSICAL CHARACTERISTICS

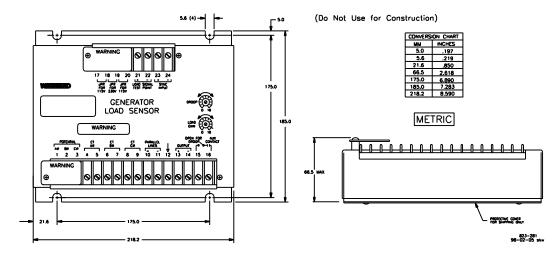
Mounting...... Any convenient location except on engine, any attitude.

Ambient Temperature Range...... -40°C to 75°C (-40°F to 167°F)

**ADJUSTMENTS** 

98/6/L

Load Gain...... Calibrates Generator Load Sensor to CT ratio.



**OUTLINE DRAWING** 

For more information contact: