**WATT / VAR TRANSDUCERS**

**PRECISION WATT/VAR TRANSDUCER**  
**MODEL GWV5**

**FEATURES**
- Available in 1, 2, or 3 element configurations.  
- Some models provide bi-directional operation.  
- Accuracy maintained over wide temperature range.  
- Calibration traceable to NIST.

**APPLICATIONS**
- Integration into energy management systems, or a variety of sub-metering applications.  
- Measurement using direct-connection, current transformers, and/or potential transformers.

**SINGLE AND THREE-PHASE MODELS WITH INTERNAL SENSOR**

<table>
<thead>
<tr>
<th>INPUTS</th>
<th>F.S. WATT/VAR</th>
<th>PHASE</th>
<th>NO. OF ELEMENTS</th>
<th>STANDARD OUTPUTS (WATT AND VAR) MODEL GWV5-</th>
</tr>
</thead>
<tbody>
<tr>
<td>AC VOLTS</td>
<td>AC AMPS</td>
<td>1mAdc</td>
<td>1mAdc</td>
<td>10Vdc</td>
</tr>
<tr>
<td>0-150</td>
<td>0-5</td>
<td>500</td>
<td>1P-2W</td>
<td>1</td>
</tr>
<tr>
<td>0-150 L-N</td>
<td>0-5</td>
<td>1000</td>
<td>3P-3W</td>
<td>2</td>
</tr>
<tr>
<td>0-300</td>
<td>0-5</td>
<td>2000</td>
<td>3P-3W</td>
<td>2</td>
</tr>
<tr>
<td>0-300 L-N</td>
<td>0-5</td>
<td>3000</td>
<td>3P-4W</td>
<td>3</td>
</tr>
<tr>
<td>0-600</td>
<td>0-5</td>
<td>2000</td>
<td>1P-2W</td>
<td>1</td>
</tr>
<tr>
<td>0-600</td>
<td>0-5</td>
<td>4000</td>
<td>3P-3W</td>
<td>2</td>
</tr>
</tbody>
</table>

GWV5 Transducers can be used with current transformers.  
Potential transformers can be used on 150V models.  
*Denotes self-powered unit, limiting input voltage ranges to:  
85-135 For 150Vac Models  
200-280 For 300Vac Models  
380-550 For 600Vac Models  
Standard units require 85-135Vac instrument power, (60Hz)

**SPECIFICATIONS**

**INPUT**
- Voltage: See Table  
- Current: 0-5Aac  
- Frequency: 60Hz standard, 50Hz optional  
- Power Factor: Any  
- Burden Voltage: <0.1VA/phase  
- Current: <0.28VA/phase

**OVERLOAD**
- Voltage (cont.) 175V, 350V, 600V  
- Current (cont.) 10A

**DIELECTRIC TEST**
- (Input/Output/Case) 1800Vac

**SURGE**
- Withstands IEEE SWC test

**OPERATING HUMIDITY**
- 0-95% non-condensing

**INSTRUMENT POWER (std.)**
- 85-135Vac, 60Hz, 7.5VA  
- 230Vac, 50/60Hz, 50/120Vac - Add suffix “-22”

**OUTPUT**
- Vars: + Lagging/ - Leading  
- Accuracy: ± 0.2% Rdg.  
- F.S. ± 0.05% F.S.  
- Includes combined effects of voltage, current, load and power factor

**INSTRUMENT POWER (STD.)**
- 85-135Vac, 60Hz, 7.5VA  
- 230Vac, 50/60Hz, 50/120Vac - Add suffix “-22”

**CASE DIMENSIONS**
- All Dimensions In Inches

**ORDERING INFORMATION**
- Example: Three-Phase, Three Wire 120V, 5A Input with 0-1mA Output  
GWV5-004B

**50Hz Models - Add suffix “-50”**
- 50ms Output Response to 90% - Add suffix “W”
- 230Vac Instrument Power - Add suffix “-22”

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SINGLE-PHASE, TWO WIRE CONNECTIONS

LOAD

LINE

OUTPUTS

COM

W

VAR

LOAD

LINE

OUTPUTS

COM

W

VAR

USING CURRENT TRANSFORMERS AND POTENTIAL TRANSFORMERS

THREE-PHASE, THREE WIRE CONNECTIONS

LOAD

LINE

OUTPUTS

COM

W

VAR

LOAD

LINE

OUTPUTS

COM

W

VAR

USING CURRENT TRANSFORMERS AND POTENTIAL TRANSFORMERS

THREE-PHASE, FOUR WIRE CONNECTIONS (3 ELEMENTS)

LOAD

LINE

OUTPUTS

COM

W

VAR

LOAD

LINE

OUTPUTS

COM

W

VAR

USING CURRENT TRANSFORMERS AND POTENTIAL TRANSFORMERS