

OSI PRECISION WATT/VAR TRANSDUCER MODEL GWV5

ACCURATE TO 0.2% OF READING



FEATURES

- Available in 1, 2, or 3 element configurations. Provides 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 - INTERNAL SENSOR

INPUTS		F.S. (W/V)	NO. ELEMENTS	PHASE CONN.	OPTIONAL OUTPUTS (WATT AND VAR) MODEL NUMBER GWV5-				
VOLTS	AMPS				± 1mA*	± 1mA	4-20mA	± 10Vdc	± 5Vdc
0 - 150	0 - 5	500	1	1 Ph.-2 W	001A	001B	001E	001D	001X5
	0 - 5	1000	2	3 Ph.-3 W	004A	004B	004E	004D	004X5
	0 - 5	1500	3	3 Ph.-4 W	007A	007B	007E	007D	007X5
0 - 300	0 - 5	1000	1	1 Ph-2W	002A	002B	002E	002D	002X5
	0 - 5	2000	2	3 Ph-3W	005A	005B	005E	005D	005X5
	0 - 5	3000	3	3 Ph-4W	008A	008B	008E	008D	008X5
0 - 600	0 - 5	2000	1	1 Ph-2W	003A	003B	003E	003D	003X5
	0 - 5	4000	2	3 Ph-3W	006A	006B	006E	006D	006X5

Can be used with customer's existing current transformers, or **OSI** current transformers shown on page 69. All other units require 85 - 135Vac instrument power, (60 Hz.). **50 HERTZ MODELS**-Add suffix "- 50" to part number. Current ranges available from 1 - 20 amps.

ORDERING INFORMATION
Example: Three-phase, three-wire
120V, 5A input with 0 - 1mA output.
GWV5-004B

*Denotes self-powered unit, limiting input voltage ranges to:
85 - 135 For 150V Models
200 - 280 For 300V Models
380 - 550 For 600V Models

MODEL GWV5 SPECIFICATIONS

INPUT

VOLTAGE: See Table
CURRENT: 0 - 5A
FREQUENCY: 60 Hz. standard; Optional 50 Hz.
POWER FACTOR: Any
BURDEN:
Voltage: Less than 0.1VA per phase
Current: Less than 0.28VA per 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

OUTPUT

ACCURACY: ± 0.2% RDG.; ± 0.05% F.S.
(Includes combined effects of voltage, current, load and power factor.)
OUTPUT Watts, VAR: See Table
OUTPUT LOADING (OHMS): 0 - 10K (0 - 1mA), 0 - 500 (4 - 20mA)
RESPONSE TIME (99%): Less than 400 milliseconds
FIELD ADJUSTABLE CAL.: ± 2% min.
COMPLIANCE VOLTAGE: 11Vdc
OPEN CIRCUIT VOLTAGE: ± 15Vdc
TEMPERATURE EFFECT (-20° - +60°C):
Watt: ± 0.005% per degree C
VAR: ± 0.009% per degree C
INSTRUMENT POWER (STD.): 85 - 135Vac, 60Hz, 7.5VA.

CONNECTION DIAGRAMS - CASE DIMENSIONS

