

# OSI PRECISION AC WATT OR VAR TRANSDUCER MODELS GW5- & GV5-

ACCURATE TO 0.2% OF READING

## DESCRIPTION

The model GW5 Watt transducer provides power measurements to within  $\pm 0.2\%$  of reading accuracy in single- or polyphase systems. The Model GV5 VAR transducer provides reactive power measurements to within  $\pm 0.2\%$  of reading accuracy in single- or polyphase systems. The electrically-isolated dc output is proportional to the instantaneous power averaged over several cycles.

Currents up to 20A and voltages up to 600Vac can be directly connected to the GW5 and GV5, thus eliminating the additional cost and additive errors of current and voltage transformers for these ranges. The GW5 and GV5 can be used with OSI metering class current transformers for measurements up to 10 kiloamperes.

## FEATURES

- Accurate regardless of variations in voltage, current, power factor, or load.
- Available in 1-, 1½-, 2-, 2½-, or 3-element configurations.
- Provides Leading/Lagging VAR indication.
- Accuracy maintained over wide temperature range, calibration traceable to NIST.
- For UL Listed precision Watt transducers, see AGW Series

Specific outputs can be selected to interface with any data acquisition system from a simple recorder to a computer, SCADA-, or PLC-based system.

The GW5 is widely used in a variety of applications, including hydroelectric generator output measurement, end-of-line appliance testing for energy consumption, building automation, energy management, and cogeneration systems.



**5 YEAR WARRANTY**

## APPLICATIONS

- Equipment monitoring for process control.
- Integration into energy management systems, or a variety of sub-metering applications.
- Measurement using direct-connection, current transformers and/or potential transformers.

### SINGLE-PHASE, TWO-WIRE MODELS, INTERNAL SENSOR (ONE-ELEMENT)

AC INPUTS		F.S. WATTS or VARS	STANDARD OUTPUTS MODEL GW5- OR GV5-									
VOLTS	AMPS		0-±1mAdc*	0-±1mAdc	0-±10Vdc*	0-±10Vdc	4-20mA	4-20mA*	4-12-20mA	4-12-20mA*	0-±5Vdc*	0-±5Vdc
0-150	0-1	100	103A	103B	103C	103D	103E	103EG	103EM	103EMG	103CX5	103X5
	0-2.5	250	106A	106B	106C	106D	106E	106EG	106EM	106EMG	106CX5	106X5
	0-5	500	001A	001B	001C	001D	001E	001EG	001EM	001EMG	001CX5	001X5
	0-10	1k	010A	010B	010C	010D	010E	010EG	010EM	010EMG	010CX5	010X5
	0-20	2k	019A	019B	019C	019D	019E	019EG	019EM	019EMG	019CX5	019X5
0-300	0-1	200	104A	104B	104C	104D	104E	104EG	104EM	104EMG	104CX5	104X5
	0-2.5	500	107A	107B	107C	107D	107E	107EG	107EM	107EMG	107CX5	107X5
	0-5	1k	002A	002B	002C	002D	002E	002EG	002EM	002EMG	002CX5	002X5
	0-10	2k	011A	011B	011C	011D	011E	011EG	011EM	011EMG	011CX5	011X5
	0-20	4k	020A	020B	020C	020D	020E	020EG	020EM	020EMG	020CX5	020X5
0-600	0-1	500	105A	105B	105C	105D	105E	105EG	105EM	105EMG	105CX5	105X5
	0-2.5	1k	108A	108B	108C	108D	108E	108EG	108EM	108EMG	108CX5	108X5
	0-5	2k	003A	003B	003C	003D	003E	003EG	003EM	003EMG	003CX5	003X5
	0-10	4k	012A	012B	012C	012D	012E	012EG	012EM	012EMG	012CX5	012X5
	0-20	8k	021A	021B	021C	021D	021E	021EG	021EM	021EMG	021CX5	021X5

### THREE-PHASE, THREE-WIRE MODELS, INTERNAL SENSOR (TWO-ELEMENT)

AC INPUTS		F.S. WATTS or VARS	STANDARD OUTPUTS MODEL GW5- OR GV5-									
VOLTS	AMPS		0-±1mAdc*	0-±1mAdc	0-±10Vdc*	0-±10Vdc	4-20mA	4-20mA*	4-12-20mA	4-12-20mA*	0-±5Vdc*	0-±5Vdc
0-150	0-1	200	120A	120B	120C	120D	120E	120EG	120EM	120EMG	120CX5	120X5
	0-2.5	500	129A	129B	129C	129D	129E	129EG	129EM	129EMG	129CX5	129X5
	0-5	1k	004A	004B	004C	004D	004E	004EG	004EM	004EMG	004CX5	004X5
	0-10	2k	013A	013B	013C	013D	013E	013EG	013EM	013EMG	013CX5	013X5
	0-20	4k	022A	022B	022C	022D	022E	022EG	022EM	022EMG	022CX5	022X5
0-300	0-1	400	121A	121B	121C	121D	121E	121EG	121EM	121EMG	121CX5	121X5
	0-2.5	1k	130A	130B	130C	130D	130E	130EG	130EM	130EMG	130CX5	130X5
	0-5	2k	005A	005B	005C	005D	005E	005EG	005EM	005EMG	005CX5	005X5
	0-10	4k	014A	014B	014C	014D	014E	014EG	014EM	014EMG	014CX5	014X5
	0-20	8k	023A	023B	023C	023D	023E	023EG	023EM	023EMG	023CX5	023X5
0-600	0-1	800	122A	122B	122C	122D	122E	122EG	122EM	122EMG	122CX5	122X5
	0-2.5	2k	131A	131B	131C	131D	131E	131EG	131EM	131EMG	131CX5	131X5
	0-5	4k	006A	006B	006C	006D	006E	006EG	006EM	006EMG	006CX5	006X5
	0-10	8k	015A	015B	015C	015D	015E	015EG	015EM	015EMG	015CX5	015X5
	0-20	16k	024A	024B	024C	024D	024E	024EG	024EM	024EMG	024CX5	024X5

NOTE: PART NUMBER 4.5 DENOTES 1½-ELEMENT UNIT.

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