

PRECISION AC WATT TRANSDUCER

MODEL AGW-

ACCURATE TO 0.2% OF READING

FEATURES

- Accurate regardless of variations in voltage, current, power factor, or load.
- Available with 1-, 2-, 2½-, or 3-element configurations.
- Provides bidirectional operation.
- Accuracy maintained over wide temperature range, calibration traceable to NIST.

**5 YEAR
WARRANTY**



Energy Management
Equipment Accessory
87X9



APPLICATIONS

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

INPUTS		F.S. WATTS	PHASE	NO. OF ELEMENTS	STANDARD OUTPUTS MODEL AGW-		
AC VOLTS	AC AMPS				0-±1mAdc	0-±10Vdc	4-20mAdc
0 - 150	0 - 5	500	1Ph - 2W	1	001B	001D	001E
0 - 300	0 - 5	1000	1Ph - 2W	1	002B	002D	002E
0 - 600	0 - 5	2000	1Ph - 2W	1	003B	003D	003E
0 - 150	0 - 5	1000	3Ph - 3W	2	004B	004D	004E
0 - 300	0 - 5	2000	3Ph - 3W	2	005B	005D	005E
0 - 600	0 - 5	4000	3Ph - 3W	2	006B	006D	006E
0 - 150 L-N	0 - 5	1500	3Ph - 4W	3	007B	007D	007E
0 - 300 L-N	0 - 5	3000	3Ph - 4W	3	008B	008D	008E
0 - 150 L-N	0 - 5	1500	3Ph - 4W	2½	007.5B	007.5D	007.5E
0 - 300 L-N	0 - 5	3000	3Ph - 4W	2½	008.5B	008.5D	008.5E

To calculate full-scale Watts when using potential and/or current transformers:

a = initial transducer calibration (from table above in F.S. WATTS column)

b = current transformer ratio (e.g. 100:5, or 20)

c = potential transformer ratio (e.g. 600:120, or 5)

F.S. WATTS = a x b x c

NOTE: UL-recognized current transformers available from factory.

SPECIFICATIONS

INPUT

Voltage See Table
Current 0-5Aac
Frequency Range 58-62Hz
Power Factor Any
Burden
Voltage <0.1VA
Current <0.25VA
Overload Voltage (continuous)
150Vac Range 175Vac
300Vac Range 350Vac
600Vac Range 600Vac
Overload Current (continuous) 2XF.S.
50Aac transient (10s/hr)
250Aac transient (1s/hr)

DIELECTRIC TEST

Input/Output/Case (150V & 300V) 1800Vac
(600V) 2200Vac
Surge Withstands IEEE SWC test

OUTPUT

Loading
"B" models (0-±1mAdc output) 0-10kΩ
"D" models (0-±10Vdc output) 2kΩ min.
"E" models (4-20mAdc output) 0-500Ω
Response Time (to 99%) <400ms
Field Adjustable Cal. ±2% min.

ACCURACY

(Includes combined effects of voltage, current, load & power factor.)

All models ±0.2% Rdg./PF, ±0.04% F.S.
Output Ripple Less than 0.5% F.S.

TEMPERATURE & PHYSICAL

Temperature Effect (-20°C to 60°C) ±0.005%/°C
Operating Humidity 0-95% non-condensing
Net Weight 3.3 lbs.

INSTRUMENT POWER

Standard 85-135Vac, 60Hz, 7VA



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Hilliard, Ohio 43026-1264

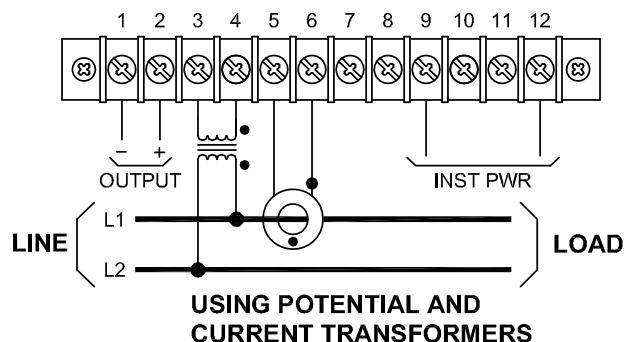
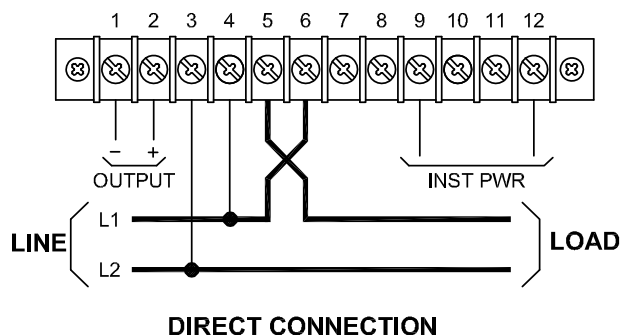
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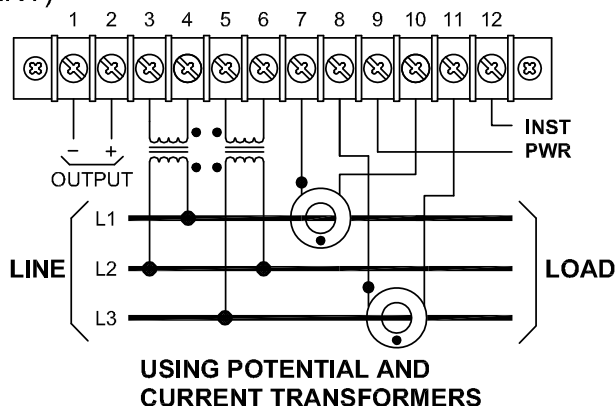
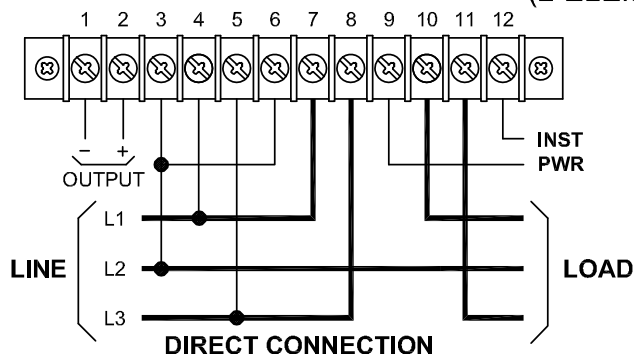
SINGLE-PHASE CONNECTIONS

(1 ELEMENT)



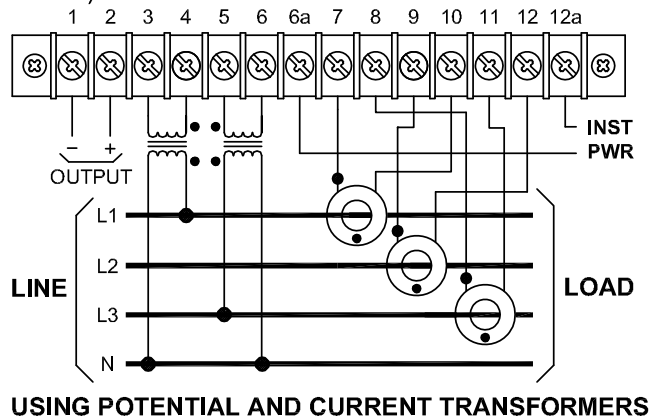
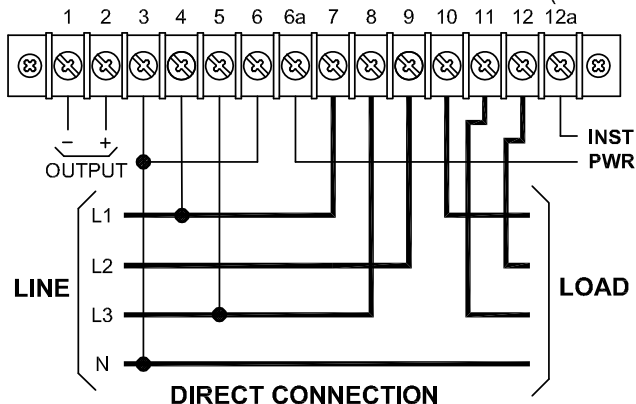
THREE-PHASE, THREE-WIRE CONNECTIONS

(2 ELEMENT)



THREE-PHASE, FOUR-WIRE CONNECTIONS

(2-1/2 ELEMENT)



Dwg# 0902-01098-B Rev--



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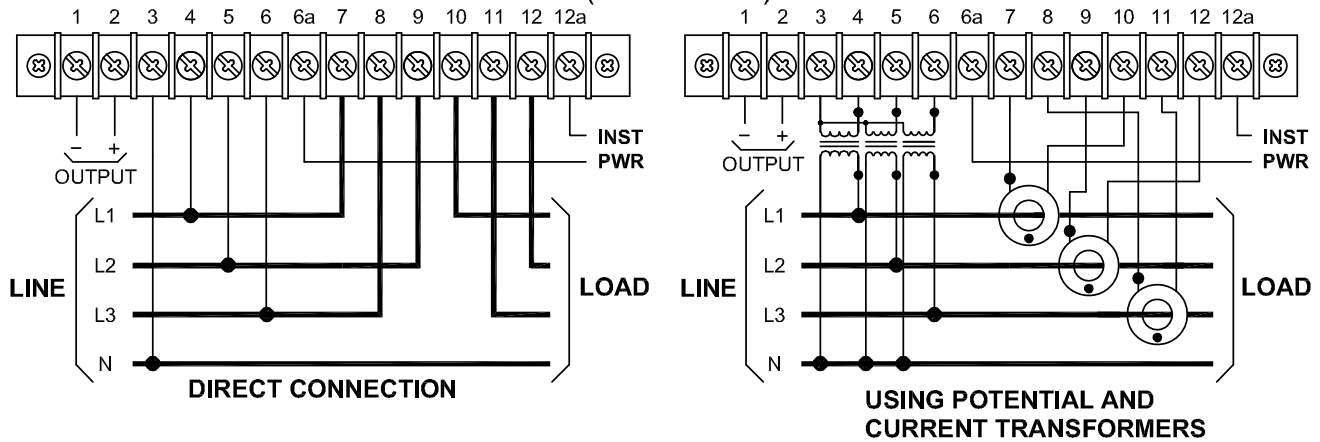
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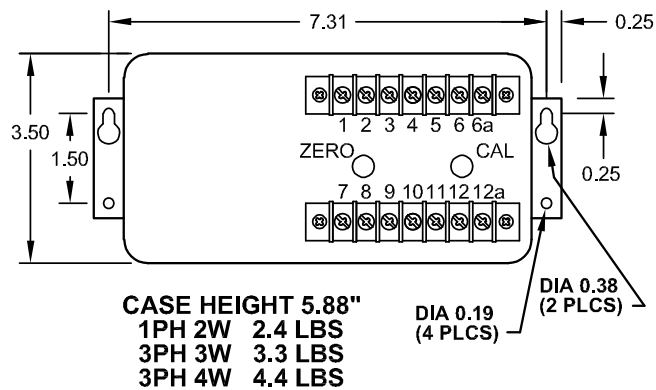
THREE-PHASE, FOUR-WIRE CONNECTIONS (3 ELEMENT)



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CASE DIMENSIONS

MODELS WITH 4-20mA OUTPUTS



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