

WATT TRANSDUCERS

PRECISION AC WATT TRANSDUCER

MODEL AGW

UL LISTED, ACCURATE TO 0.2% OF READING

FEATURES

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

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.

LISTED 87X9
Energy Management
Equipment Accessory



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

**E" option is not bidirectional

ORDERING INFORMATION

Example: 120V, 5A, Three-Phase,
Three-Wire Input, ±10Vdc, Output
Proportional to ± 1000 Watts
AGW-004D

SPECIFICATIONS

INPUT

Voltage..... See Table
Current..... 0-5Aac
Frequency Range 58-62Hz
Power Factor..... Any
Burden
Voltage..... < 0.1VA
Current..... < 0.25VA
Overload
Voltage..... (cont.) 150Vac Range 175Vac
300Vac Range 350Vac
600Vac Range 600Vac
Current..... (cont.) 2 X F.S.
(transient) 50Aac (10 sec./hr.)
250Aac (1 sec./hr.)
Dielectric Test.... Input/Output/Case..... (150V & 300V)... 1800Vac
(600V) 2200Vac
Surge Withstands IEEE SWC test

OUTPUT

Output Ripple..... <0.5% F.S.
Output Loading (Ω)
0-1mAdc..... 0-10K
0-10Vdc..... 2K min.
4-20mAdc..... 0-500
Response Time..... (99%) < 400ms
Field Adjustable Cal. ± 2% min.
ACCURACY ±0.2% Rdg./PF.. ± 0.04% F.S.
Includes combined effects of voltage, current, load and power factor.
Temperature Effect (-20°C to +60°C)..... ±0.005%/C
Operating Humidity..... 0-95% non-condensing
Instrument Power..... (Std.) 85-135Vac, 60Hz, 7VA
Weight 3.3 Lbs.

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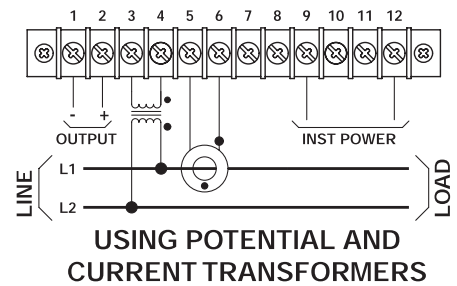
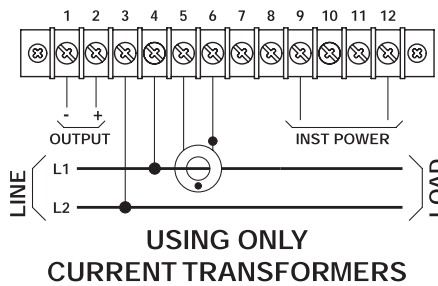
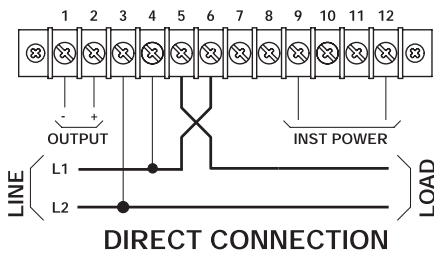
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CONNECTION DIAGRAMS/DIMENSIONS

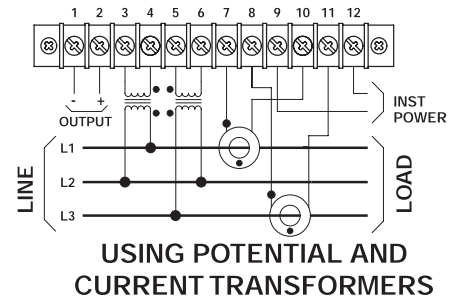
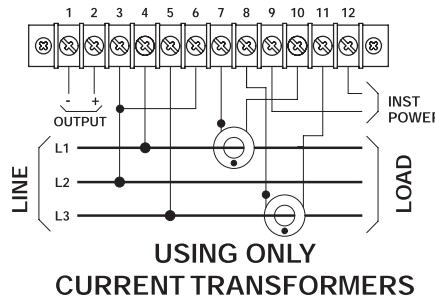
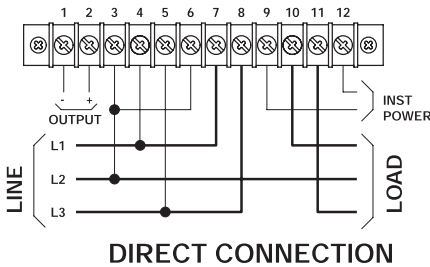
MODEL AGW

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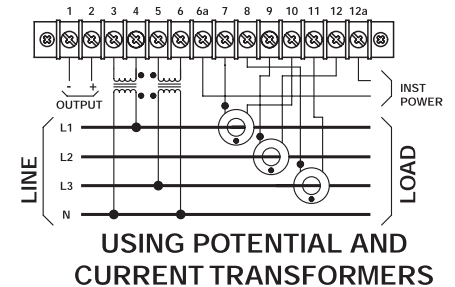
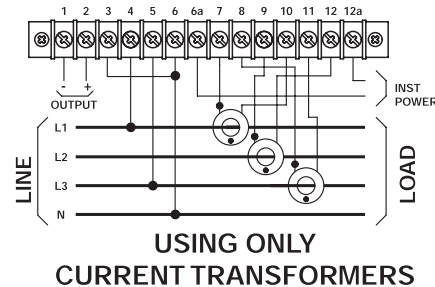
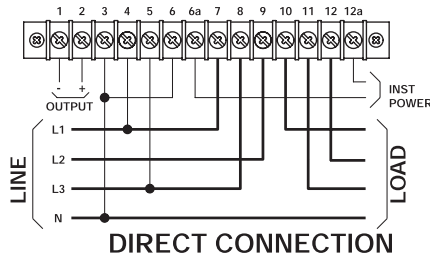
SINGLE-PHASE CONNECTIONS (ONE ELEMENT)



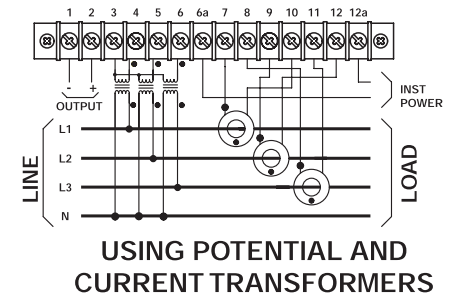
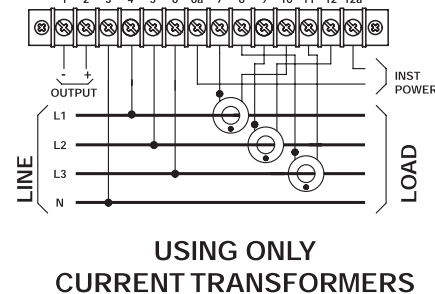
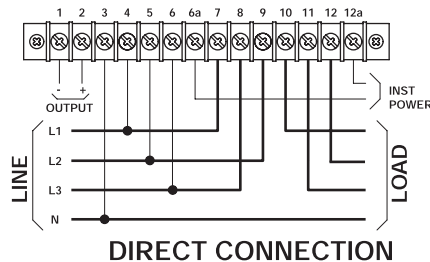
THREE-PHASE, THREE-WIRE CONNECTIONS (2 ELEMENT)



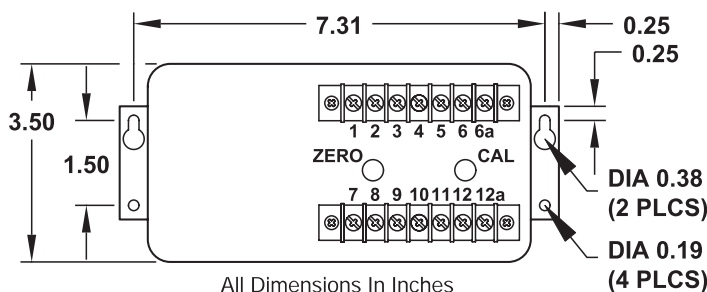
THREE-PHASE, FOUR-WIRE CONNECTIONS (2 1/2 ELEMENT)



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



DIMENSIONS



CASE HEIGHT 5.88"
 1PH 2W 2.4 Lbs.
 3PH 3W 3.3 Lbs.
 3PH 4W 4.4 Lbs.