OSI 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

RoHS compliant

c UL us LISTED

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	$2^1/_2$	007.5B	007.5D	007.5E
0 - 300 L-N	0 - 5	3000	3Ph - 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.

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

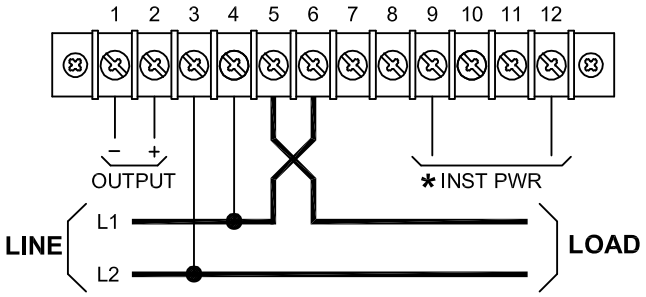
Temperature Effect (-20ºC to 60ºC) ..... ±0.005%/ºC
Operating Humidity ..... 0-95% non-condensing
Net Weight ..... 3.3 lbs.

INSTRUMENT POWER

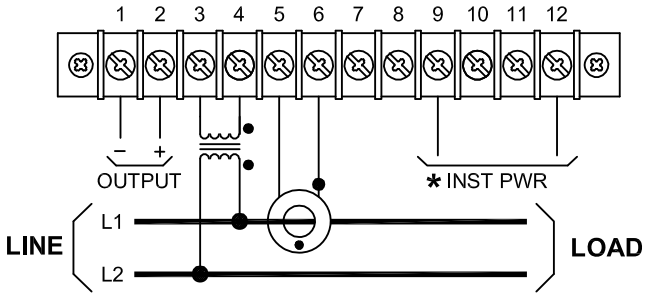
Standard 85-135Vac, 60Hz, 7VA

OHIO SEMITRONICS, INC.
4242 REYNOLDS DRIVE * HILLIARD, OHIO * 43026-1264
PHONE: (614) 777-1005 * FAX: (614) 777-4511
WWW.OHIOSEMITRONICS.COM * **1-800-537-6732**

SINGLE-PHASE CONNECTIONS
(1 ELEMENT)

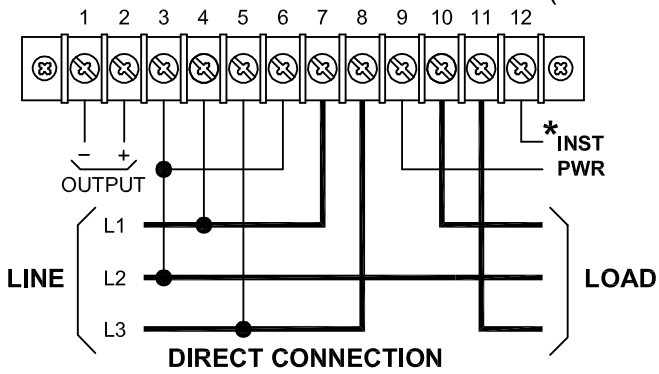


DIRECT CONNECTION

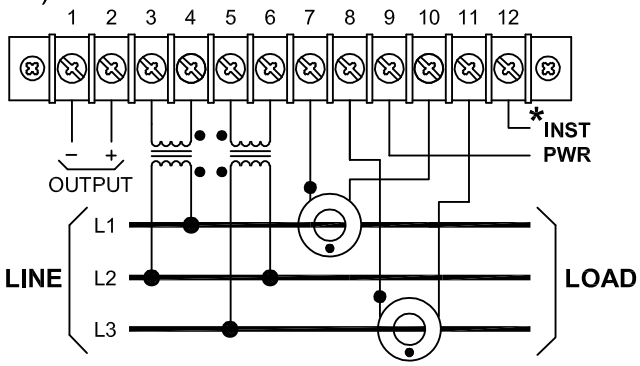


USING POTENTIAL AND CURRENT TRANSFORMERS

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



DIRECT CONNECTION

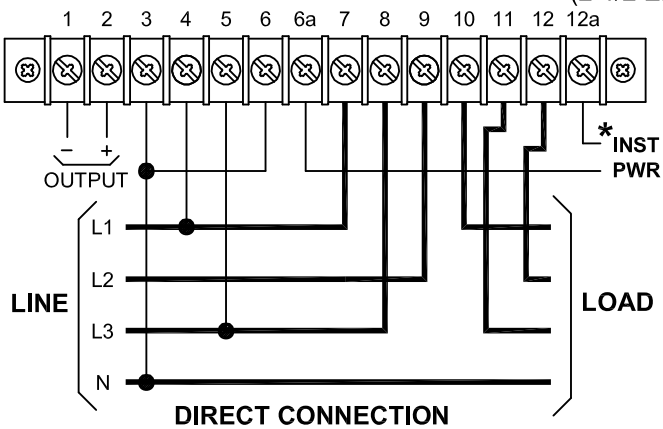


USING POTENTIAL AND CURRENT TRANSFORMERS

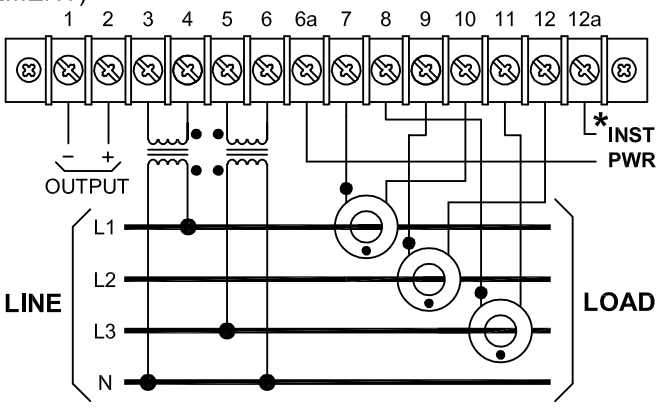
* 115Vac ON MODELS WITH B, D, E, EM OR X5 SUFFIX.
* 230Vac ON MODELS WITH -22 SUFFIX.
* NOT REQUIRED ON MODELS WITH A, C, CX5, EG OR EMG SUFFIX.

Dwg# 0902-00873-B Rev A

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



DIRECT CONNECTION



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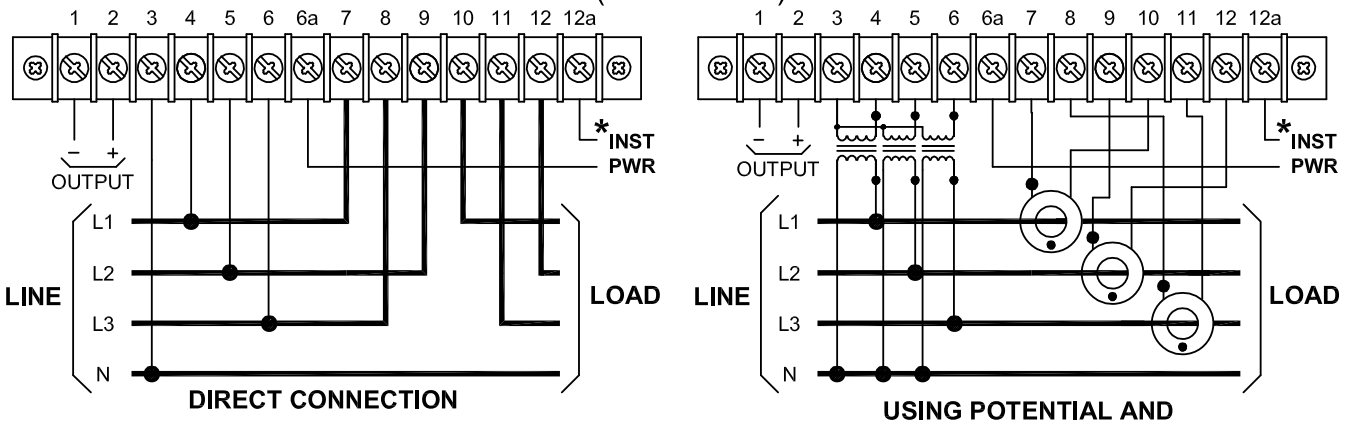
THREE-PHASE, FOUR-WIRE CONNECTIONS
(3 ELEMENT)



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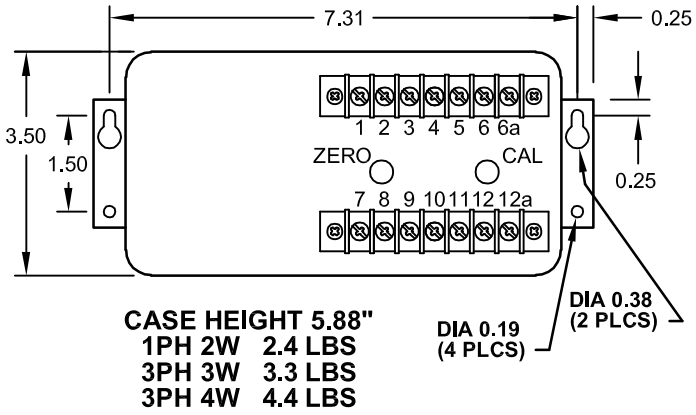
CASE DIMENSIONS



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

ALL DIMENSIONS IN INCHES.

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