

OSI PRECISION AC WATT/WATTHOUR TRANSDUCER MODEL AGH-

ACCURATE TO 0.2% OF READING

FEATURES

- Accurate regardless of variations in voltage, current, power factor, or load.
- Dual outputs, analog signal proportional to instantaneous watts. Relay closure proportional to Watthours.
- Calibrated with standards traceable to NIST.

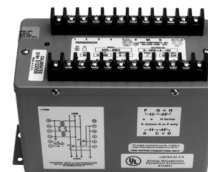
5 YEAR WARRANTY



APPLICATIONS

- Designed for applications which require UL-listed devices.
- Integration into energy management systems or a variety of sub-metering applications.
- Measurement using direct-connection, current and/or potential transformers.

Energy Management Equipment Accessory 87X9



SINGLE- AND THREE-PHASE MODELS WITH INTERNAL SENSOR

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

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

a = initial transducer calibration (F.S. Watts from table above)

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
 Current, continuous 2 X F.S.
 transient 50Aac (10sec./hr)
 250Aac (1sec./hr)

DIELECTRIC TEST (Input/Output/Case)

150Vac & 300Vac models 1800Vac
 600Vac models 2200Vac
 Surge Withstands IEEE SWC test

INSTRUMENT POWER

Standard 90-135Vac, 60Hz, 7.5VA

OUTPUT

Wh Relay N/O SPST; 120Vac, 0.5A Rated
 contact closure duration 200ms
 Closure Calibration (Std.) 1 Watthour/closure
 Analog Output Loading
 "B" models ... (0-1mAdc output) 0-10kΩ
 "D" models ... (0-10Vdc output) 2kΩ min.
 "E" models ... (4-20mAdc output) 0 to 500Ω
 Response Time (to 99%) <400ms

ACCURACY ±0.2% Rdg. ±0.05% F.S.
 Includes combined effects of voltage, current, load and power factor.
 Analog Output Ripple <0.5% F.S.

TEMPERATURE & PHYSICAL

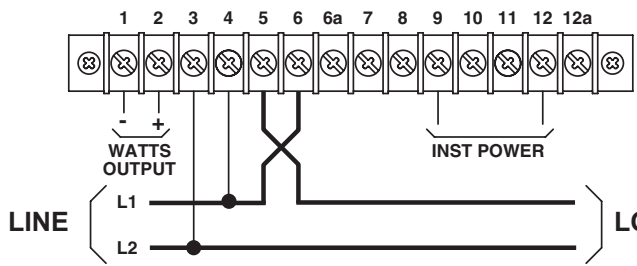
Temperature Effect (-20° to 60°C) ±0.005%/°C
 Net Weight 3 lbs.

CONNECTION DIAGRAMS AND DIMENSIONS
 SHOWN ON FOLLOWING PAGES

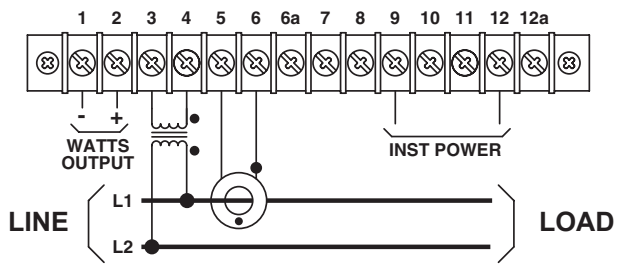
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SINGLE-PHASE CONNECTIONS (ONE-ELEMENT)

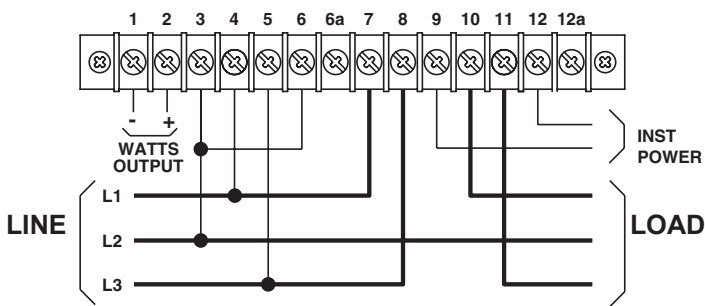


DIRECT CONNECTION

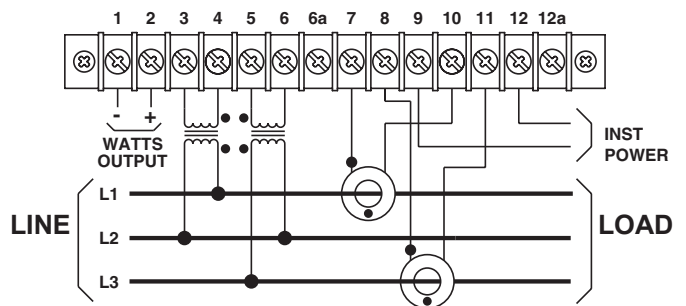


USING CURRENT & POTENTIAL TRANSFORMERS

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

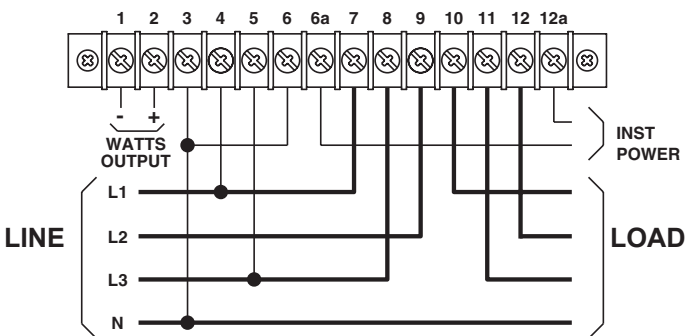


DIRECT CONNECTION

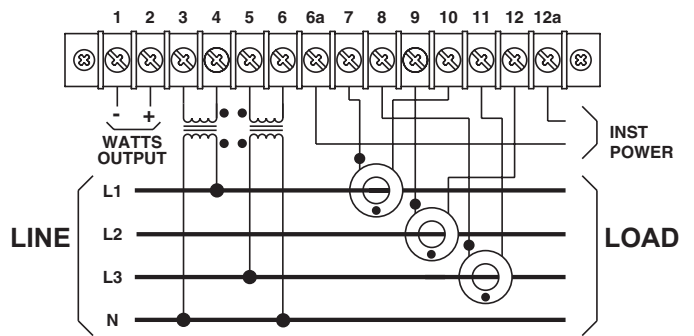


USING CURRENT & POTENTIAL TRANSFORMERS

THREE-PHASE, FOUR-WIRE CONNECTIONS (2½-ELEMENT)

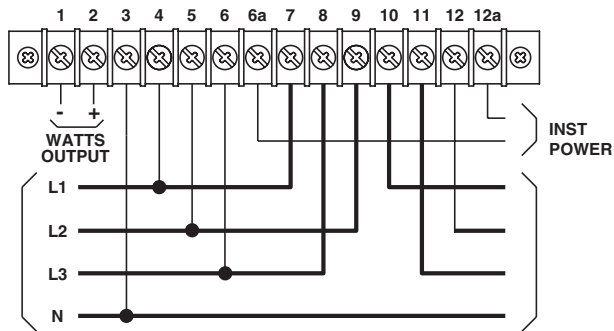


DIRECT CONNECTION

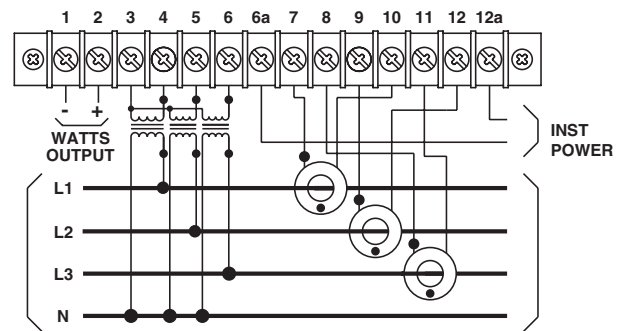


USING CURRENT & POTENTIAL TRANSFORMERS

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

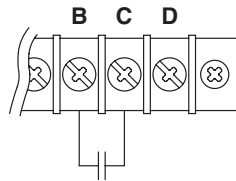


DIRECT CONNECTION



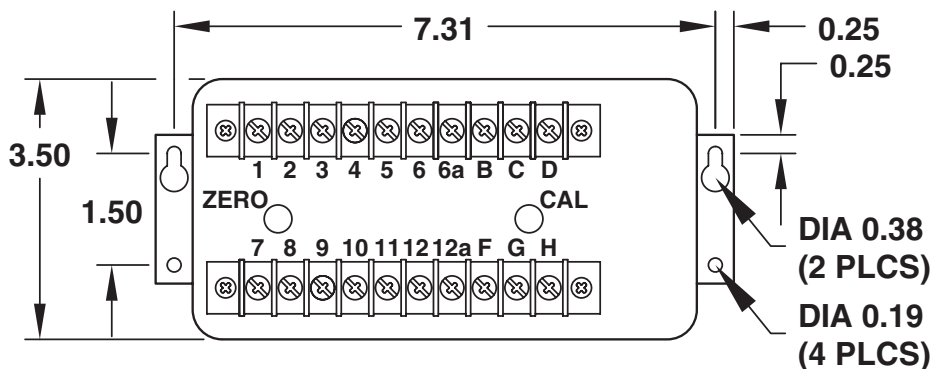
USING CURRENT & POTENTIAL TRANSFORMERS

WATTHOUR OUTPUT CONNECTIONS



**STANDARD OUTPUT
SPST RELAY**

CASE DIMENSIONS



CASE HEIGHT 5.88"

1PH 2W	2.9 LBS
3PH 3W	3.3 LBS
3PH 4W	3.8 LBS

All dimensions in inches