

## 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.

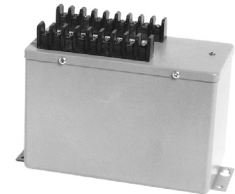
### APPLICATIONS

- 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.

**5 YEAR WARRANTY**



**Energy Management  
Equipment Accessory  
87X9**



INPUTS		F.S. WATTS	PHASE	NO. OF ELEMENTS	STANDARD OUTPUTS MODEL AGW-		
AC VOLTS	AC AMPS				0-±1mA <sub>dc</sub>	0-±10V <sub>dc</sub>	4-20mA
0 - 150	0 - 5	500	1 P - 2 W	1	001B	001D	001E
0 - 300	0 - 5	1000	1 P - 2 W	1	002B	002D	002E
0 - 600	0 - 5	2000	1 P - 2 W	1	003B	003D	003E
0 - 150	0 - 5	1000	3 P - 3 W	2	004B	004D	004E
0 - 300	0 - 5	2000	3 P - 3 W	2	005B	005D	005E
0 - 600	0 - 5	4000	3 P - 3 W	2	006B	006D	006E
0 - 150 L-N	0 - 5	1500	3 P - 4 W	3	007B	007D	007E
0 - 300 L-N	0 - 5	3000	3 P - 4 W	3	008B	008D	008E
0 - 150 L-N	0 - 5	1500	3 P - 4 W	2½	007.5B	007.5D	007.5E
0 - 300 L-N	0 - 5	3000	3 P - 4 W	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 ..... 0-5A<sub>ac</sub>  
 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.  
     50A<sub>ac</sub> transient ..... (10s/hr)  
     250A<sub>ac</sub> transient ..... (1s/hr)

### DIELECTRIC TEST

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

### OUTPUT

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

### ACCURACY

All models ..... ±0.2% R<sub>dg</sub>. ±0.04% F.S.  
 (Includes combined effects of voltage, current, load & power factor.)  
 Output Ripple ..... Less than 0.5% F.S.

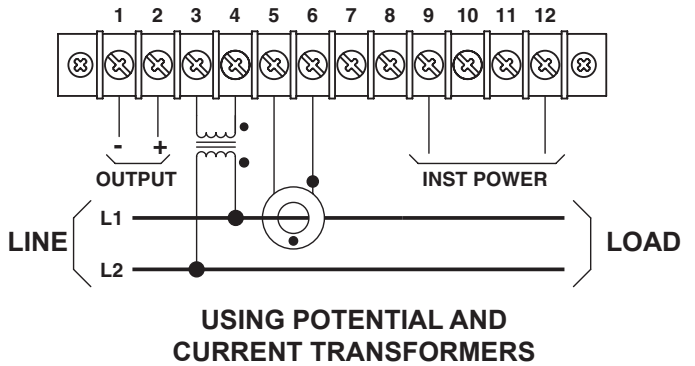
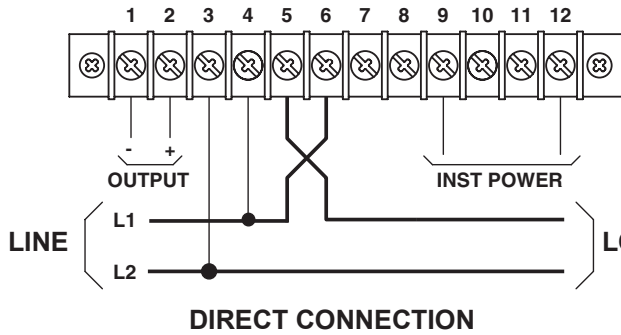
### TEMPERATURE & PHYSICAL

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

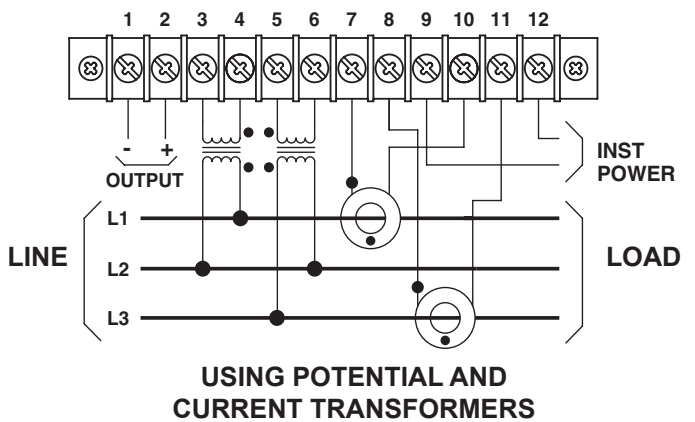
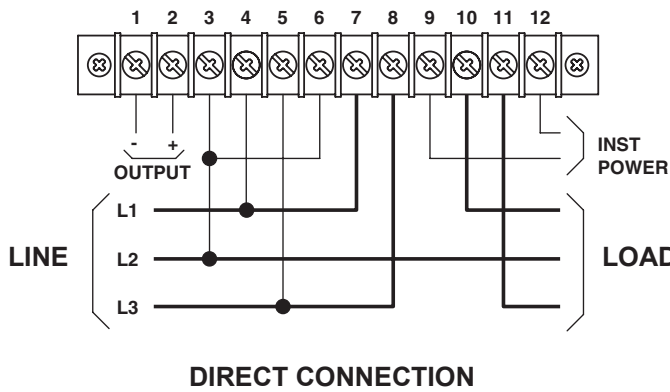
### INSTRUMENT POWER

Standard ..... 85-135Vac, 60Hz, 7VA

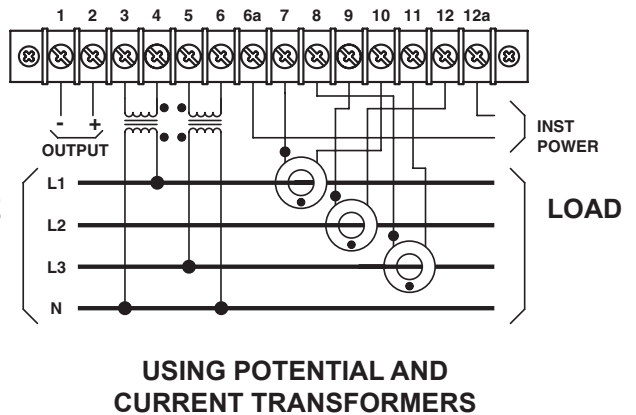
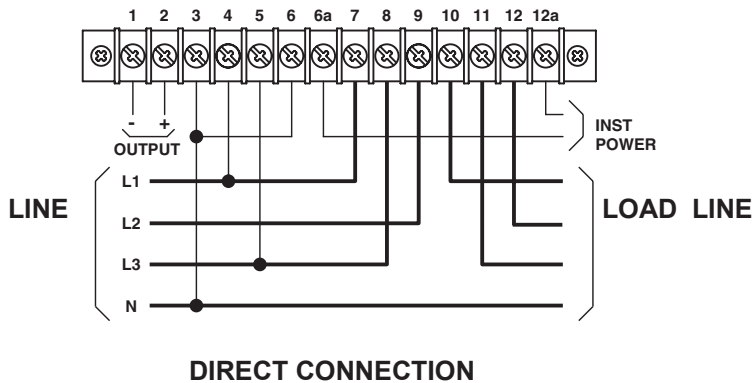
**SINGLE-PHASE CONNECTIONS  
(1-ELEMENT)**



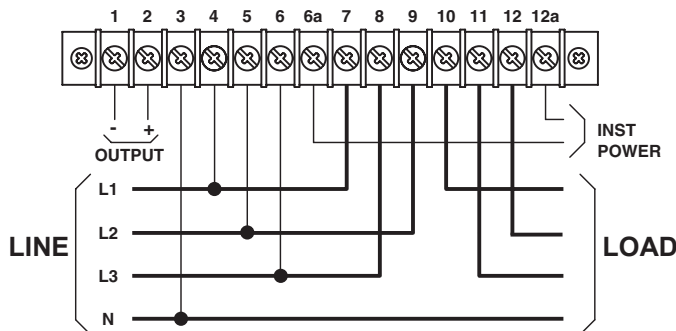
**THREE-PHASE, THREE-WIRE CONNECTIONS  
(2-ELEMENT)**



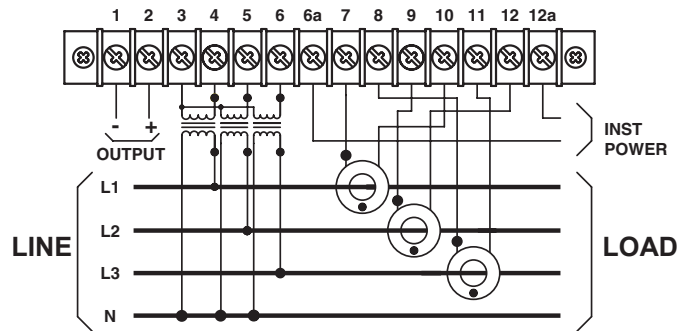
**THREE-PHASE, FOUR-WIRE CONNECTIONS  
(2½-ELEMENT)**



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

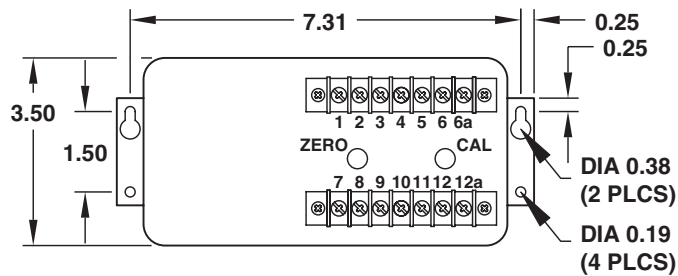


**DIRECT CONNECTION**



**USING POTENTIAL AND  
CURRENT TRANSFORMERS**

**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