

Pulse Output AC Power Measurement

THE WATTNODE is a true RMS AC watt-hour transducer with pulse output (solid state relay closure) proportional to kWh consumed. The WattNode provides accurate measurement at low cost to meet your needs for sub-metering, energy management and performance contract applications.

Easy Installation saves you time and money. The WATTNODE is small enough to fit entirely within a standard electrical panel and the screw terminals unplug for easy wiring.

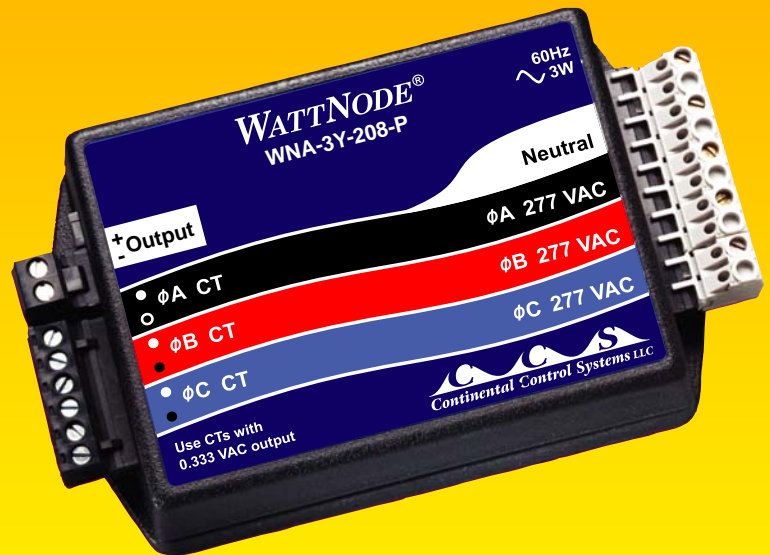
The Complete P-Series family measures 1, 2, or 3 phases in 2, 3 or 4 wire configurations. With voltage ratings from 120 to 600 VAC and current transformer (CT) rating from 5 to 3000 amps, there is a WattNode combination to meet your AC power measurement requirements.

ACCURACY of the WATTNODE is 0.5% of reading over a wide range of power factors and harmonic content. You get true kWh measurements even with switching power supplies and variable speed drives.

Our Safe CTs, with internal burden resistors produce a voltage proportional to the load current. At rated current voltage is only 0.333 VAC. Split core CTs quickly install on existing wiring and solid core CTs cost less for new wiring.

The Optional LCD module remotely displays energy in WH, kWh and MWh; or power in W or kW. To protect the kWh total you can disable the front panel reset button and use a wired remote reset. The eight digit panel mounts and display runs for four years on a single replaceable battery.

277/480
VAC
120/240



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- **Pulse Output**
Comparable with energy management systems and data loggers
- **Small Size**
Can be installed in existing service panels or junction boxes
- **Uses Safe CTs**
Output limited to one volt
- **Line Powered**
No external power supply required
- **Digit Signal Processing**
Accurate kWh measurement over a wide harmonic range.
- **Line Powered**
No external power supply
- **Detachable Terminal Blocks**
Easy to install and remove

SPECIFICATIONS

WATTNODE®

Pulse Output AC Power Measurement

Measurement Configurations

Single phase: 2-wire or 3-wire
 Three phase: 3-wire or 4-wire

Electrical

Line Powered
 Operating Voltage Range: +/- 20% of nominal
 Power Line Frequency: 60 Hz
 CT Input: 0-5 VAC Operating, 3 VAC maximum

Pulse Output

Optoisolated, solid state relay closures handle up to
 50 mA at 3-35 VDC
 Frequency at Full Scale Power*
 1-phase, 2 or 3 wire: 1.333 or 2.667 Hz
 3-phase, 3 wire: 2.667 Hz
 3-phase, 4 wire: 4.00 Hz
 *other frequencies available

Accuracy

0.45% of reading + 0.05% of full scale thru 25th harmonic.

Environmental

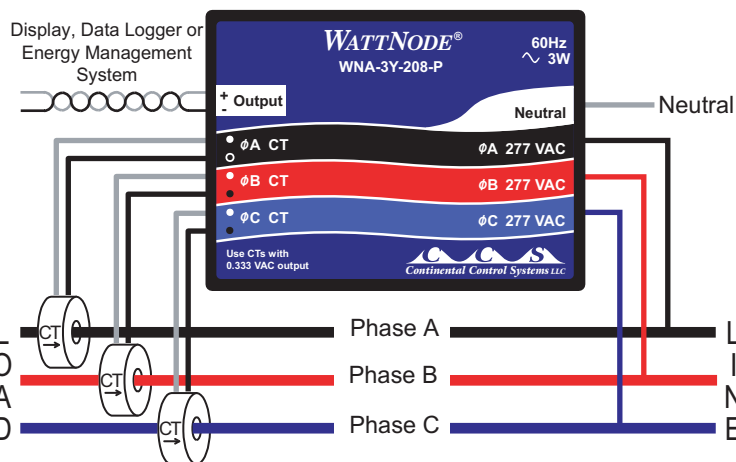
Temperature: -30° C to 60° C
 Humidity: 5 to 90% RH (non-condensing)

Mechanical

Enclosure: High impact, UL rated, ABS plastic
 Size: 3.3" x 5.6" x 1.25"
 Connectors: UL, CSA recognized, detachable,
 screw terminals (14AWG), 600V

Optional LCD Display

Display: Eight digits, each 0.43" high
 Reset: Wired remote and configurable front panel
 button
 Enclosure: Panel mount box, 2.95" x 1.52"
 Battery: Lithium 2/3A, replace every four years



MODELS

Model	VAC	VAC	Phases	Wires
	Line To Neutral	Line To Line		
WNA-1P-240-P	120	240	1	2 or 3
WNA-3Y-208-P	120	208-240	3	4
WNA-3Y-400-P*	230	400	3	4
WNA-3Y-480-P	277	480	3	4
WNA-3Y-600-P*	347	600	3	4
WNA-3D-240-P	N/A	208-240	3	3
WNA-3D-480-P	N/A	480	3	3

LCD Displays

*not UL listed

Model	Displays	Units
LCDA-E	Energy	WH,kWH, or MWH
LCDA-P	Power	W or kW
LCDA-EP	Energy & Power	See Above

OPENING CURRENT TRANSFORMERS (SPLIT CORE)

Model	Inside Diameter	Rated Amps
CTS-0750	0.75"	5, 15, 30, 50, 70, 100, 150
CTS-1250	1.25"	70, 100, 150, 200, 250, 300, 400, 600
CTS-2000	2.00"	600, 800, 1000, 1200, 1500
CTB	Bus Bar	600, 800, 1200, 2000, 3000 (custom)

TOROIDAL CURRENT TRANSFORMERS (SOLID CORE)

Model	Inside Diameter	Rated Amps
CTT-0300	0.30"	5, 15, 30
CTT-0500	0.50"	15, 30, 50, 60
CTT-0750	0.75"	30, 50, 70, 100
CTT-1000	1.00"	50, 70, 100, 150, 200
CTT-1250	1.25"	70, 100, 150, 200, 250, 300, 400

Current Transformer Output Voltage: 0 - 0.333 VAC @ rated current
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MADE IN THE USA

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