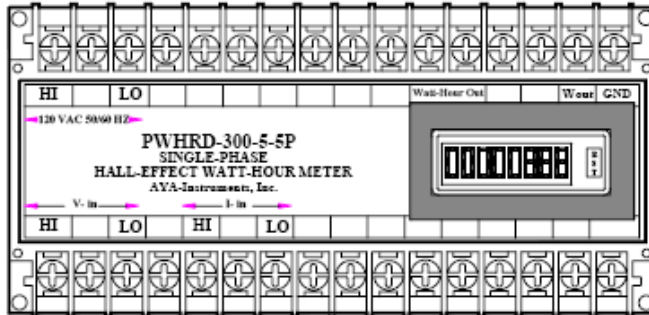
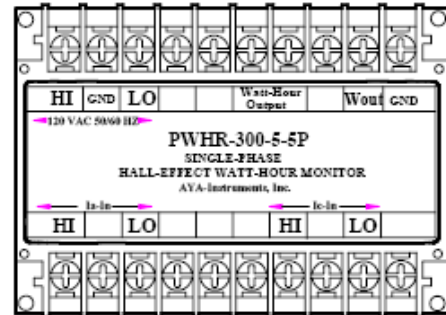


PWHRD and PWHR Series Hall-Effect Watt/Watt-Hour Meters and Monitors



PWHRD



PWHR

The PWHR Hall-Effect Watt/Watt-Hour Meters are designed for continuous monitoring of power and energy in single-phase and three-phase electric networks. The Watt-Hour instruments are packaged in DIN-type enclosures for easy installation on DIN-Rails or on flat surfaces. The Watt-Hour measurement is independent of the power factor or the voltage and current signal waveforms. The WATT output signal is a DC voltage or a DC current that is proportional to the TRUE ACTIVE POWER. The WATT-HOUR output is in the form of pulses, or optionally as relay closures.

The PWHRD Monitor is a single-phase model. The Watt-Hour energy is displayed on an 8-digit display unit which is located on the front panel.

The PWHR Monitor is a single-phase monitor without a display unit.

The PWHR32 Monitor is a three-phase monitor without display that is designed for "DELTA" three-phase three-wire installations.

The PWHR43 Monitor is a three-phase monitor without display that is designed for "WYE" three-phase four-wire installations.

The PWHRXD is an optional DIN-type 8-digit display unit that is designed for use with Watt-Hour monitors that do not have an incorporated display.

Hall-Effect Watt/Watt-Hour Monitors

PWHR and PWHRD

Single Phase

Specifications

INPUT VOLTAGE RANGE: FULL SCALE CONTINUOUS
50% OVERRANGE - 3 Seconds
(600 Volts Maximum)

INPUT CURRENT RANGE: 0-5 or 0-30 AAC
50% OVERRANGE - 3 Seconds

LINE FREQUENCY: 20 to 500 Hz.

50-60 Hz ACCURACY CLASS: 0.5% of Full Scale

WATT-HOUR OUTPUT OPTIONS: PULSES or REALY CLOSURES

RESOLUTION: 0.1 WATT-HOUR

WATT OUTPUT OPTIONS: 1, 10, 20 or 4-20 mADC

OUTPUT RIPPLE: 1% Peak-to-Peak Maximum

ISOLATION TEST: 1 kV - 1 Minute

TEMPERATURE RANGE: 0 to +50 Deg. C

STORAGE TEMPERATURE: -20 to +80 Deg. C

POWER: 120 VAC 50-60 Hz
(120 VAC, 24, 48, 120 VDC ARE OPTIONAL)

ENCLOSURE: DIN RAIL TYPE 46277
5.95" x 2.9" x 4.4" (With Display)
3.94" x 2.9" x 4.4" (Without Display)

Applications and Features

FOR CONTINUOUS MONITORING OF ENERGY (POWER CONSUMPTION) IN WATT-HOURS.

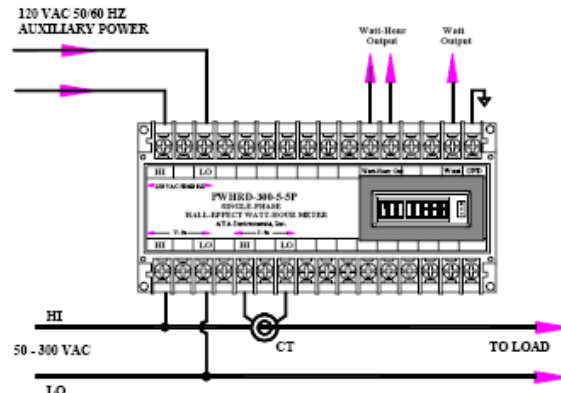
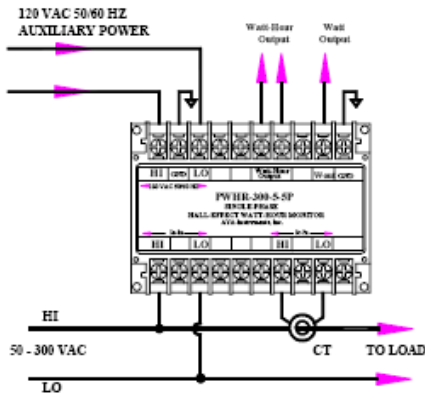
OUTPUT RATE IS 18,000 PER HOUR (5 Pulses-per-Second)

OTHER RATE ARE AVAILABLE

OUTPUTS ARE INDEPENDENT OF INPUT VOLTAGE AND CURRENT WAVEFORMS.

CAN BE USED WITH EXTERNAL PT's AND CT's.

OPTIONAL TERMINAL COVERS PROVIDE PROTECTION FROM ELECTRICAL SHOCK AND SHORTING.



MODEL SELECTION CHART			
VOLTAGE INPUT	CURRENT INPUT	PWHR MODELS (WITHOUT DISPLAY)	PWHRD MODELS (WITH DISPLAY)
150 VAC	5 AAC	PWHR-150-5-5P	PWHRD-150-5-5P
150 VAC	30 AAC	PWHR-150-30-5P	PWHRD-150-30-5P
300 VAC	5 AAC	PWHR-300-5-5P	PWHRD-300-5-5P
300 VAC	30 AAC	PWHR-300-30-5P	PWHRD-300-30-5P
600 VAC	5 AAC	PWHR-600-5-5P	PWHRD-600-5-5P
600 VAC	30 AAC	PWHR-600-30-5P	PWHRD-600-30-5P

Specifications subject to change without notification

Watt/Watt-Hour Monitors

PWHR32

“DELTA” THREE-PHASE THREE-WIRE

Specifications

INPUT VOLTAGE RANGE: FULL SCALE CONTINUOUS
50% OVERRANGE - 3 Seconds
(600 Volts Maximum)

INPUT CURRENT RANGE: 0-5 or 0-30 AAC
50% OVERRANGE - 3 Seconds

LINE FREQUENCY: 20 to 500 Hz.

50-60 Hz ACCURACY CLASS: 0.5% of Full Scale

WATT-HOUR OUTPUT OPTIONS: PULSES or RELAY CLOSURES

RESOLUTION: 0.1 WATT-HOUR

WATT OUTPUT OPTIONS: 1, 10, 20 or 4-20 mADC

OUTPUT RIPPLE: 1% Peak-to-Peak Maximum

ISOLATION TEST: 1 kV - 1 Minute

TEMPERATURE RANGE: 0 to +50 Deg. C

STORAGE TEMPERATURE: -20 to +80 Deg. C

POWER: 120 VAC 50-60 Hz
(120 VAC, 24, 48, 120 VDC Optional)

ENCLOSURE: DIN RAIL TYPE 46277
5.95" x 2.9" x 4.4" (With Display)
3.94" x 2.9" x 4.4" (Without Display)

Applications and Features

FOR CONTINUOUS MONITORING OF ENERGY (POWER CONSUMPTION) IN WATT-HOURS.

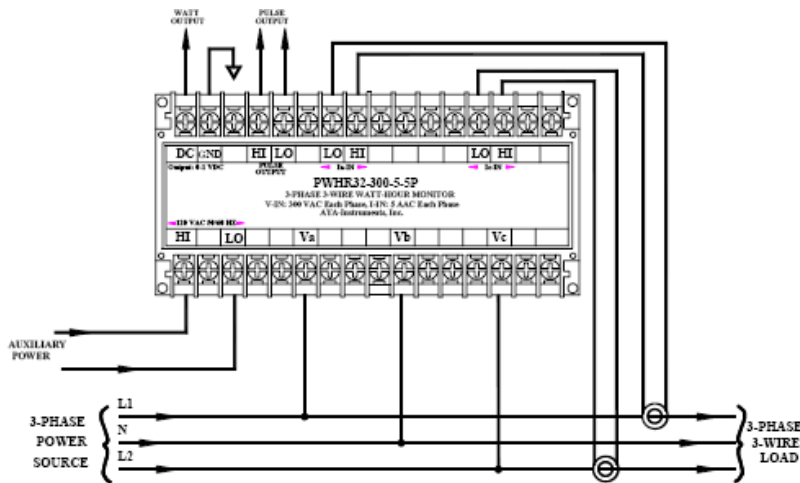
OUTPUT RATE IS 18,000 PER HOUR (5 Pulses-per-Second)
OTHER RATES ARE AVAILABLE.

OUTPUTS ARE INDEPENDENT OF INPUT VOLTAGE AND CURRENT WAVEFORMS.

CAN BE USED WITH EXTERNAL PT's AND CT's.

OPTIONAL TERMINAL COVERS PROVIDE PROTECTION FROM ELECTRICAL SHOCK AND SHORTING.

OPTIONAL EXTERNAL DIGITAL DISPLAY.



SELECTION CHART			
VOLTAGE INPUT	CURRENT INPUT	PWHR32 MODELS	
150 VAC	5 AAC	PWHR32-150-5-5P	For Relay Contacts Output add "R" to the end of the Model Number
150 VAC	30 AAC	PWHR32-150-30-5P	
300 VAC	5 AAC	PWHR32-300-5-5P	
300 VAC	30 AAC	PWHR32-300-30-5P	
600 VAC	5 AAC	PWHR32-600-5-5P	
600 VAC	30 AAC	PWHR32-600-30-5P	

Specifications subject to change without notification

Watt/Watt-Hour Monitors

PWHR43

“WYE” THREE-PHASE FOUR-WIRE

Specifications

INPUT VOLTAGE RANGE: FULL SCALE CONTINUOUS
50% OVERRANGE - 3 Seconds
(600 Volts Maximum)

INPUT CURRENT RANGE: 0-5 or 0-30 AAC
50% OVERRANGE - 3 Seconds

LINE FREQUENCY: 20 to 500 Hz.

50-60 Hz ACCURACY CLASS: 0.5% of Full Scale

WATT-HOUR OUTPUT OPTIONS: PULSES or RELAY CLOSURES

RESOLUTION: 0.1 WATT-HOUR

WATT OUTPUT OPTIONS: 1, 10, 20 or 4-20 mA DC

OUTPUT RIPPLE: 1% Peak-to-Peak Maximum

ISOLATION TEST: 1 kV - 1 Minute

TEMPERATURE RANGE: 0 to +50 Deg. C

STORAGE TEMPERATURE: -20 to +80 Deg. C

POWER: 120 VAC 50-60 Hz
(120 VAC, 24, 48, 120 VDC optional)

ENCLOSURE: DIN RAIL TYPE 46277
5.95" x 2.9" x 4.4" (With Display)
3.94" x 2.9" x 4.4" (Without Display)

Applications and Features

FOR CONTINUOUS MONITORING OF ENERGY (POWER CONSUMPTION) IN WATT-HOURS.

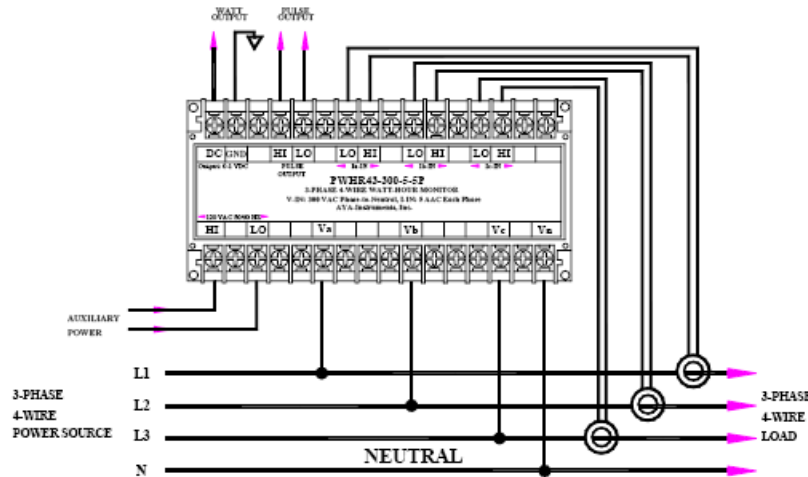
OUTPUT RATE IS 18,000 PER HOUR (5 Pulses-per-Second)
OTHER RATES ARE AVAILABLE.

OUTPUTS ARE INDEPENDENT OF INPUT VOLTAGE AND CURRENT WAVEFORMS.

CAN BE USED WITH EXTERNAL PT's AND CT's.

OPTIONAL TERMINAL COVERS PROVIDE PROTECTION FROM ELECTRICAL SHOCK AND SHORTING.

OPTIONAL EXTERNAL DIGITAL DISPLAY.



SELECTION CHART			
VOLTAGE INPUT	CURRENT INPUT	PWHR43 MODELS	
150 VAC	5 AAC	PWHR43-150-5-5P	For Relay Contacts Output add "R" to the end of the Model Number
150 VAC	30 AAC	PWHR43-150-30-5P	
300 VAC	5 AAC	PWHR43-300-5-5P	
300 VAC	30 AAC	PWHR43-300-30-5P	
600 VAC	5 AAC	PWHR43-600-5-5P	
600 VAC	30 AAC	PWHR43-600-30-5P	

Specifications subject to change without notification

