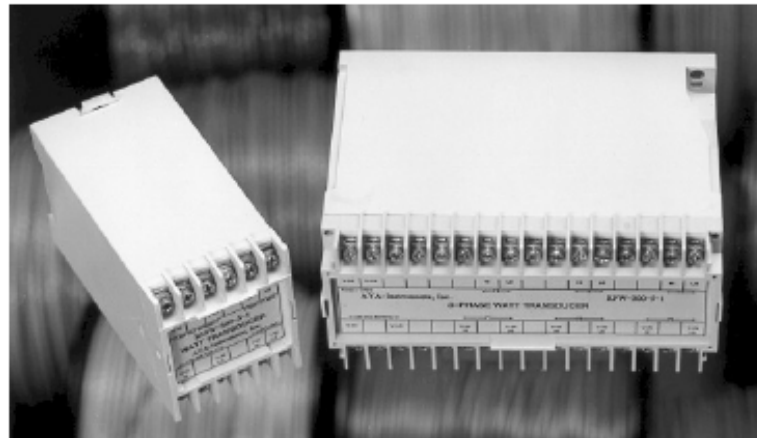
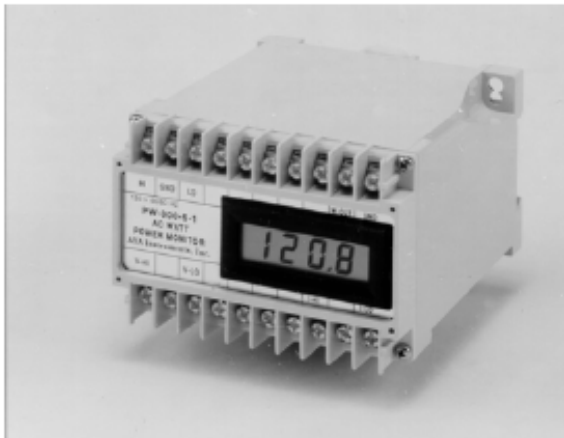


## **PMSHID - True RMS and PHID - Averaging Hall-Effect Current Monitors**



The **PMSHID** and **PHID** Monitors are precision HALL-EFFECT instruments with digital displays designed for measuring AC current with a frequency range of 20 to 2,000 Hz and an accuracy of 0.5%. They are packaged in enclosures designed for permanent installation on a standard DIN-Rail or on a flat surface. They provide input/output isolation and convert the incoming current signal to a DC output voltage or current. Input current ranges are 0-1, 0-5, 0-10, 0-15 and 0-25 Amperes without the use of external current transformers. Output signal range options are 0-1, 0-5, 0-10 Volts DC and 0-1, 0-20, 4-20 Milliampers DC. They are also available without a digital display.

The **PMSHID** and **PMSHI** models provide an output which is proportional to the **TRUE RMS** value of the current being monitored. They are ideal for measuring non-linear loads that contain considerable harmonic content such as switching power supplies and many process control applications.

The **PHID** and **PHI** monitors are instruments that provide an output which is proportional to the **AVERAGE** value of the current being monitored.

The **PMSHID** and the **PHID** are single-channel instruments.

The **PMSH3** and **PH3** are triple-channel instruments.

Special input and output ranges are also available.

**Hall-Effect AC Current Monitors**

**PMSHID/PHID and PMSHI/PHI**

True RMS and Averaging

**0.5% ACCURACY**

**Specifications**

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

**INPUT CURRENT RANGE:** FULL SCALE CONTINUOUS  
50% OVERRANGE - 3 Seconds  
20 to 1000 Hz.

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

**OUTPUT OPTIONS:** 1, 5 or 10 Volt DC  
1, 10, 20 or 4-20 mA DC  
1% Peak-to-Peak Maximum

**OUTPUT RIPPLE:** 1 kV - 1 Minute

**ISOLATION TEST:** 0 to +50 Deg. C  
**TEMPERATURE RANGE:** -20 to +80 Deg. C

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

**ENCLOSURE TYPE:** DIN RAIL TYPE 46277  
5.9" x 2.9" x 4.4"

**Applications and Features**

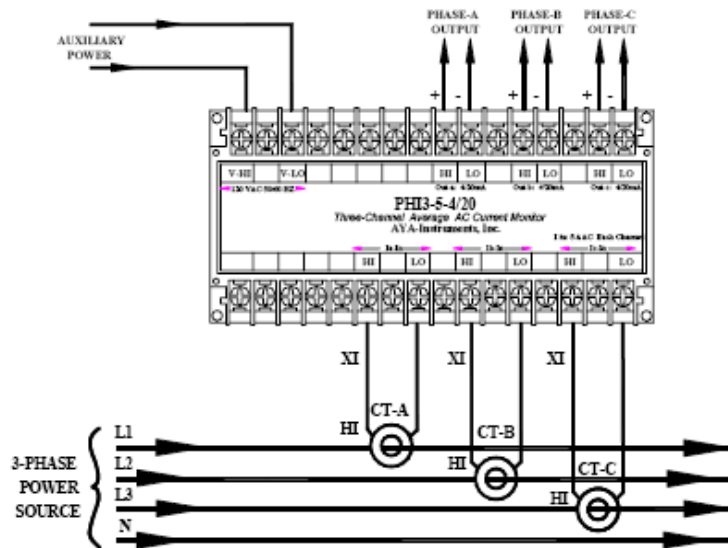
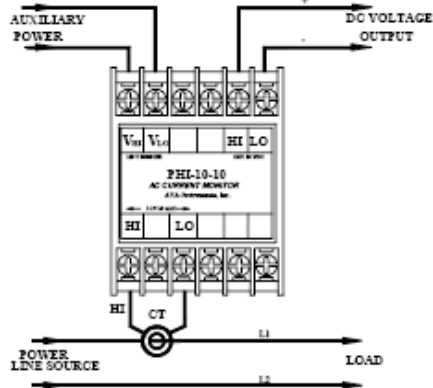
**TRUE RMS MONITORS:**

**PMSHID:** Single-Channel with LCD Display  
**PMSHI:** Single-Channel without LCD Display  
**PMSHI3:** Triple-Channel without LCD Display

**AVERAGING MONITORS:**

**PHID:** Single-Channel with LCD Display  
**PHI:** Single-Channel without LCD Display  
**PHI3:** Triple-Channel without LCD Display

SPECIAL INPUT and OUTPUT RANGES ARE AVAILABLE.



SELECTION		CHART				
For True RMS Single-Channel Models use:		"PMSHID-" and "PMSHI-"				
For True RMS Triple-Channel Models use:		"PMSHI3-"				
For AVERAGING Single-Channel Models use:		"PHID-" and "PHI-"				
For AVERAGING Triple-Channel Models use:		"PHI3-"				
INPUT	1 VDC	5 VDC	10 VDC	1 mADC	20 mADC	4-20 mADC
1 AAC 5 AAC 10 AAC 15 AAC 25 AAC	1-1 5-1 10- 1 15-1 25-1	1-5 5-5 10- 5 15-5 25-5	1-10 5-10 10-10 15-10 25-10	1-1M 5-1M 10-1M 15- 1M 5-1M	1-20M 5-20M 10-20M 15- 20M 5-20M	1-4/20 5-4/20 10- 4/20 15-4/20 25- 4/20

5001 Baum Blvd. Pittsburgh, PA 15213 P: 412-622-5500 – F: 412-681-3773 [www.ayainstruments.com](http://www.ayainstruments.com)