

OSI AC POWER MONITOR (SINGLE RANGE) MODEL PTM-

DESCRIPTION

The PTM series of AC Power Monitors provides an instantaneous display of volts, amps, watts, and watthours for single- and three-phase systems. Analog and pulse outputs are also provided for convenient connection to external metering equipment.



FEATURES

- 0.25% accuracy
- LED Displays for volts, amps and watts
- LCD 8-digit counter for Wh (with battery back-up)
- Direct inputs for 600V and 100A.
- Metal enclosure
- Optional rack mount

ORDERING INFORMATION
 Example: 1PH, 2-W, 1-ELE, 0 to 150Vac,
 0 to 5Aac, 50Hz, Rack Mount
PTM-1111R

MODEL NO. PTM-

PHASE		VOLTAGE		CURRENT		FREQUENCY		OPTIONS		OPTION R	
1	1-PH, 2-W, 1-ELE	1	0 to 150Vac	1	0 to 5Aac	1	50Hz	D	Output 0 to 10Vdc for F.S. Voltage and Current, all phases	Rack Mount	
2	3-PH, 3-W, 2-ELE	2	0 to 300Vac	2	0 to 10Aac	2	60Hz	F	All Wh references changed to Watt-seconds, resolution = 1Ws/C		
3	3-PH, 4-W, 3-ELE	3	0 to 600Vac	3	0 to 20Aac	3	400Hz				
				4	0 to 50Aac	4	25 to 70Hz				
				5	0 to 100Aac						

SPECIFICATIONS

INPUT

Voltage .. Range (Linear) Seetable
 Over-voltage (w/o damage) 150V models 175Vac
 300V models 350Vac
 600V models 625Vac
 Burden (voltage) 0.1VA per phase
 Current Range (Linear) ..5A models 10Aac
 10A models 15Aac
 20A models 20Aac
 50A models 60Aac
 100A models 120Aac
 Over-current (w/o damage):
 5A models 20A (continuous) ... 50A@10sec/hr
 10A models ... 20A (continuous), .. 50A@10sec/hr
 20A models ... 25A (continuous) ... 75A@10sec/hr
 50A models ... 65A (continuous) .. 150A@10sec/hr
 100A models . 130A(continuous) . 100A@10sec/hr
 Burden (current) <1VA per phase
 Frequency Range (Linear) 50Hz models 47 to 53Hz
 60Hz models 57 to 63Hz
 400Hz models . 380 to 420Hz
 25 to 70Hz models 20 to 70Hz
 Power Factor Any
 Isolation (Input to Output) 1500Vac

INSTRUMENT POWER

Type 115Vac ± 10%, 50-400Hz

TERMINATION Screw-type terminal strips

OUTPUT

Voltage (RMS)
 Scaling 0 to F.S. Vac Input = 0 to 10Vdc Output
 (switchable from line to line)
 Resolution 0.1Vac
 Response Time (to 90% F.S.) 100ms
 Current (RMS)
 Scaling 0 to F.S. Aac Input = 0 to 10Vdc Output
 Resolution 0.1Vac
 Response Time (to 90% F.S.) 100ms
 Watts (True Power)
 Scaling 0 to F.S. W Input = 0 to 10Vdc Output
 Resolution1.0W to 10W (depends upon inputs)
 Response Time (to 90% F.S.) 400ms
 Watthours
 Scaling 1Wh Input = 1 Count
 Resolution 1Wh/C, 8-digit, 0.3"Ht LCD
 Response Time (to 90% F.S.) 400ms
 Load on all outputs >2kΩ
 Ripple <0.5% F.S.
 Displays (except Wh) LED with .56" digits

ACCURACY and LINEARITY

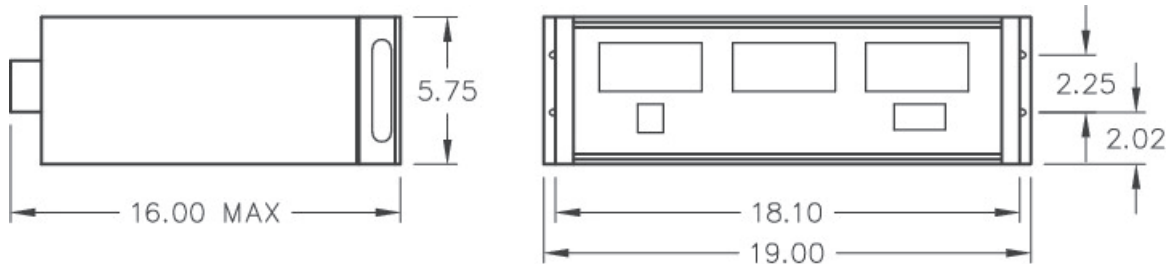
W & Wh ≤20A models ±0.25% Rdg, ±0.05% F.S.
 ≥50A models ±0.25% F.S.
 Current & Voltage ±0.25% F.S.
 25Hz models add ±0.5% F.S.
 Temperature Effects (0 to 40°C) ±0.1%/°C

OHIO SEMITRONICS, INC.

4242 REYNOLDS DRIVE * HILLIARD, OHIO * 43026-1264
 PHONE: (614) 777-1005 * FAX: (614) 777-4511
WWW.OHIOSEMITRONICS.COM * 1-800-537-6732

OSI AC POWER MONITOR (SINGLE RANGE) MODEL PTM-

CASE DIMENSIONS



SCALE: 1=2

NOTE: 5-1/4 X 13 X 17 MODEL IS WITHOUT RACK AND TERMINAL BLOCK ON BACK.

CONNECTION DIAGRAM

