

ASD

Automation Systems And Diagnostics

Integrated Systems Design and Development



PM²-100

Power Monitoring & Management Unit

Power Monitoring and Management Unit



Automation Systems and Diagnostics' PM² - 100 is a portable, reliable and compact power monitoring and management unit. This device measures the power consumed by any given appliance, and then calculates the total price that this power consumption is costing you.

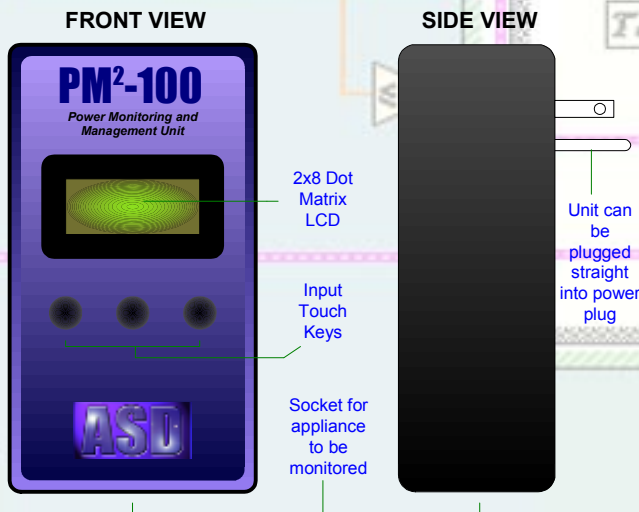
With the various appliances around the home or at work, such a unit permits you to keep track of what is really costing you in terms of electrical power, and by monitoring this cost you can decide on the best time to use this appliance, or whether the appliance is more energy-consuming than it should be.

PM² - 100 will take this into consideration *from that point on*, using both the old and new unit costs in the total cost calculation.

With an unmatched low price, you can use several of these units to monitor the consumption of all the costly appliances such as microwaves, heaters, televisions, washing machines, refrigerators, or even office and work equipment such as personal computers, small rotating machinery, overhead projectors, and the like.

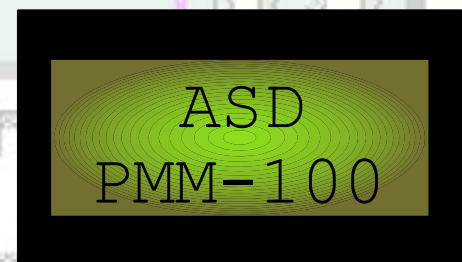
PRODUCT FEATURES

- Compact and lightweight providing complete portability
- Simple to operate
- Multifunctional keys
- High accuracy of 1%
- Output display provides key functions at a given time and displays results when requested
- Microprocessor-based control provides run-time cost calculation, permitting changes in cost of power during operation
- Low consumer price



All you have to do is plug the appliance to be monitored into the PM² - 100, insert the unit into an electrical outlet and provide it, through the input keys, with the price per kilowatt-hour. From then on, you can leave the PM² - 100 to monitor the consumption for as long as you wish. While monitoring this consumption, the cost will be calculated instantaneously at run-time.

Even when the cost of power may vary at different times, being cheaper during the late night for example, all you have to do is change the price per kilowatt-hour and the



SYSTEM SPECIFICATIONS

• Power Input

- AC Voltage: 120 / 240V
- AC Current: 15A max.
- Frequency: 50/60 Hz (Auto-detect).

Power Monitoring and Management Unit



- **Measurement**

Sampling Rate: 2777 samples/sec
Measurement accuracy: 1 %

Parameter range:

Power: 0 to 9999 W
Cost / kWh: 00.00 to 99.99 cents
KWh: 0 to 999999 kWh
Total Cost: 0 to \$999999

- **User Interface**

Input: Three multifunctional keys
Display: 2 x 8 Dot Matrix LCD

PHYSICAL SPECIFICATIONS

- **Environmental**

Operating temperature -20° to 135°F
Humidity 10 to 80%

- **Dimensions**

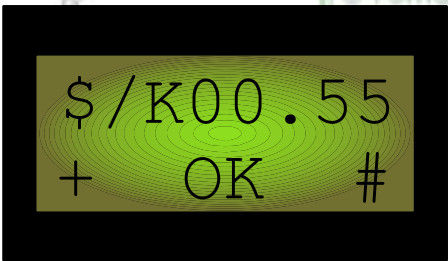
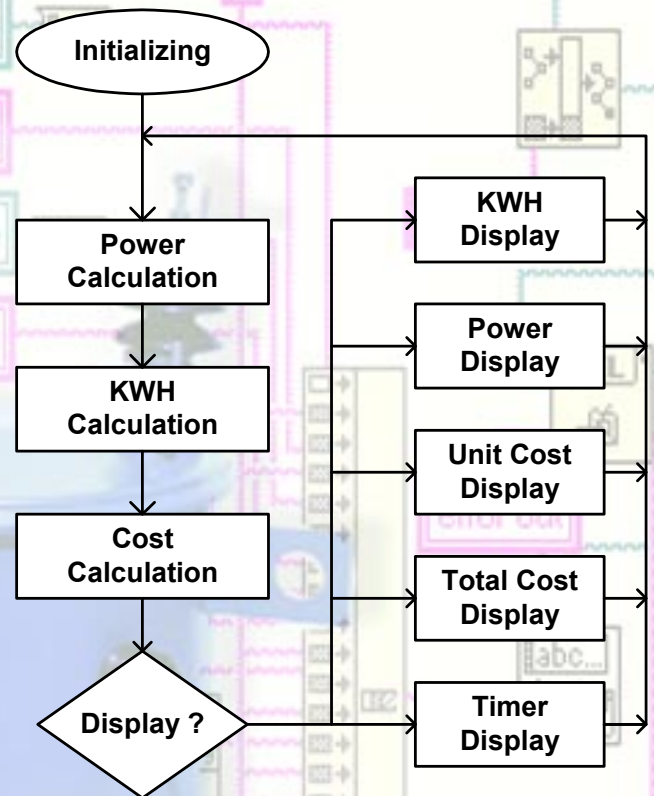
2.75" W x 5.0" H x 1.75" D

- **Weight**

Approximately 1/2 lb.

- **Enclosure**

The PM² - 100 is housed in a rigid plastic casing.



CONTACT INFORMATION

Automation Systems and Diagnostics
1021 Davis Drive
Apex, NC 27523

Phone: 919-842-2613
Fax: 919-380-1054

Email: ASD@ASDpower.com
Web: www.ASDpower.com