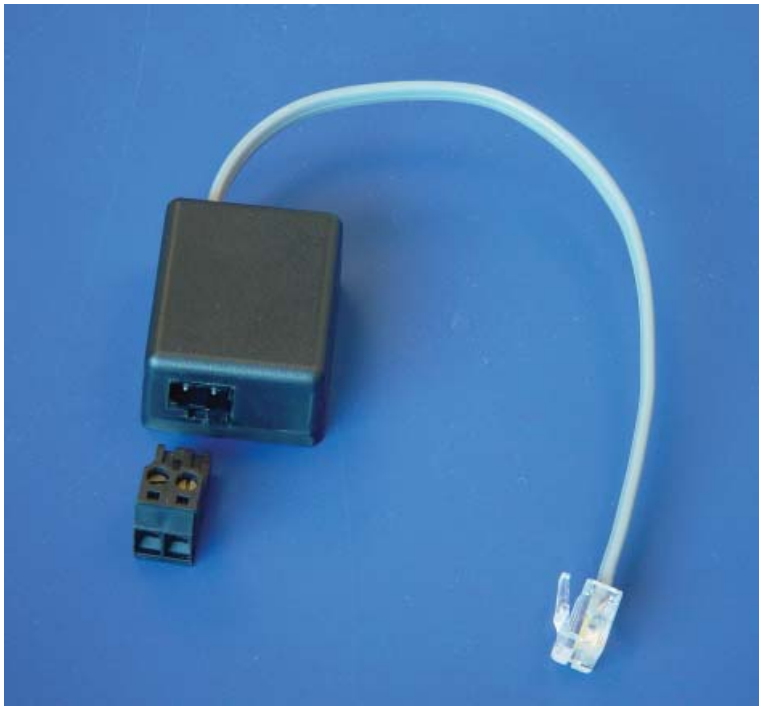
E-Mon®
Energy Monitoring Products

www.emon.com
info@emon.com

E-Mon D-Mon®
Installation Manual

PIM
Pulse Interface Module



E-Mon, LLC - 850 Town Center Drive-Langhorne, PA 19047

Dear Valued Customer,

We are pleased that you chose to purchase one of our products and want you to be just as pleased with owning it. To be sure that you are 100% satisfied with our products, we provide toll-free technical and sales support Monday through Friday, 8:00 am to 7:30 pm, eastern time. The toll-free numbers are: Langhorne, PA - (800)334-3666 and San Diego, CA - (800)810-3666. You may also reach us via email at *info@emon.com.*

Before installing your new E-Mon product, please read the information on the following pages carefully.

We believe that you will find the E-Mon product easy to install and use for monitoring and evaluating your electrical usage.

If you have any questions, we can handle them quickly and effectively with a telephone call. Please let us try to help you by phone **BEFORE** you remove your E-Mon product. To better serve your needs, please have all relevant information on hand when you call (Model or Part Numbers, nature of difficulty, etc.)

Be sure to forward this manual to the owner after installation is complete so that they may use it as a reference guide.

Thank you.

E-Mon®
Energy Monitoring Products

Table of Contents

1.0 Introduction

The E-Mon Pulse Interface Module (PIM) is designed to interface E-Mon Class 1000 and 2000 KWH and Demand meters with Web-Mon's I/O-8 expansion module. It will provide the correct pulse signal to the I/O-8 that will allow for proper functionality with the meters.

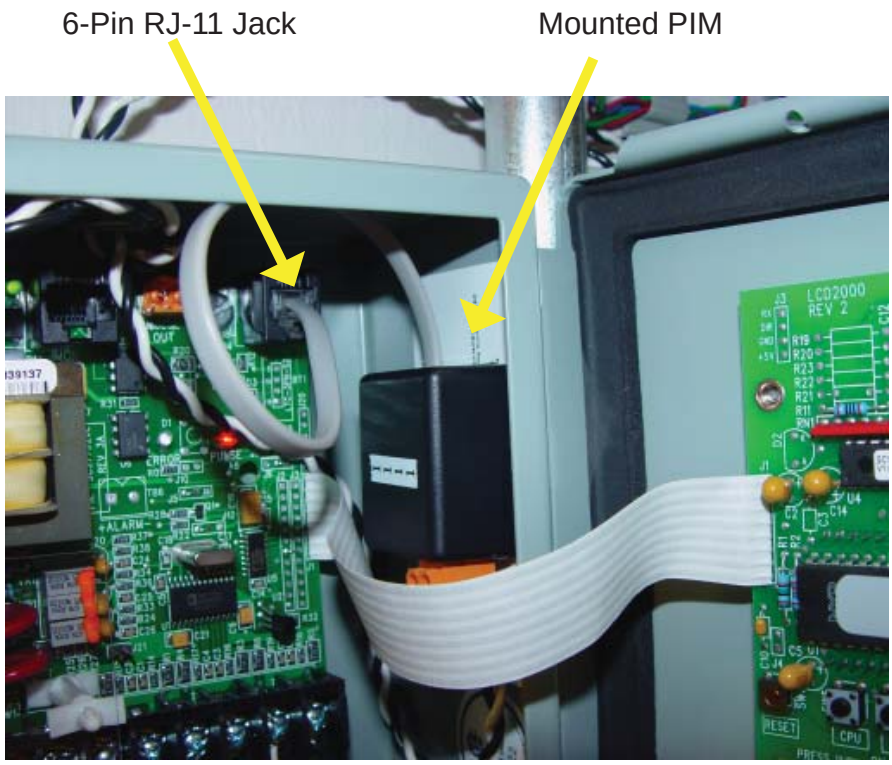
The PIM is powered by the meter and does not require any other source to operate. The value of the pulse is determined by the amperage size of the meter that it is connected to. Connection to the meter is through a 6-pin modular jack and is simply a plug-in type of hookup.

The output pulse from the PIM is through a removable 2-screw connector and is polarity independent. The output pulse is optically isolated from the meter and is treated as a dry contact.

NOTE: *The PIM will interface with all Class 1000 and 2000 series meters built after 1997. It will not function with meters built before 1998.*

2.0 Installation Instructions

Figure 1 (Installation Overview)



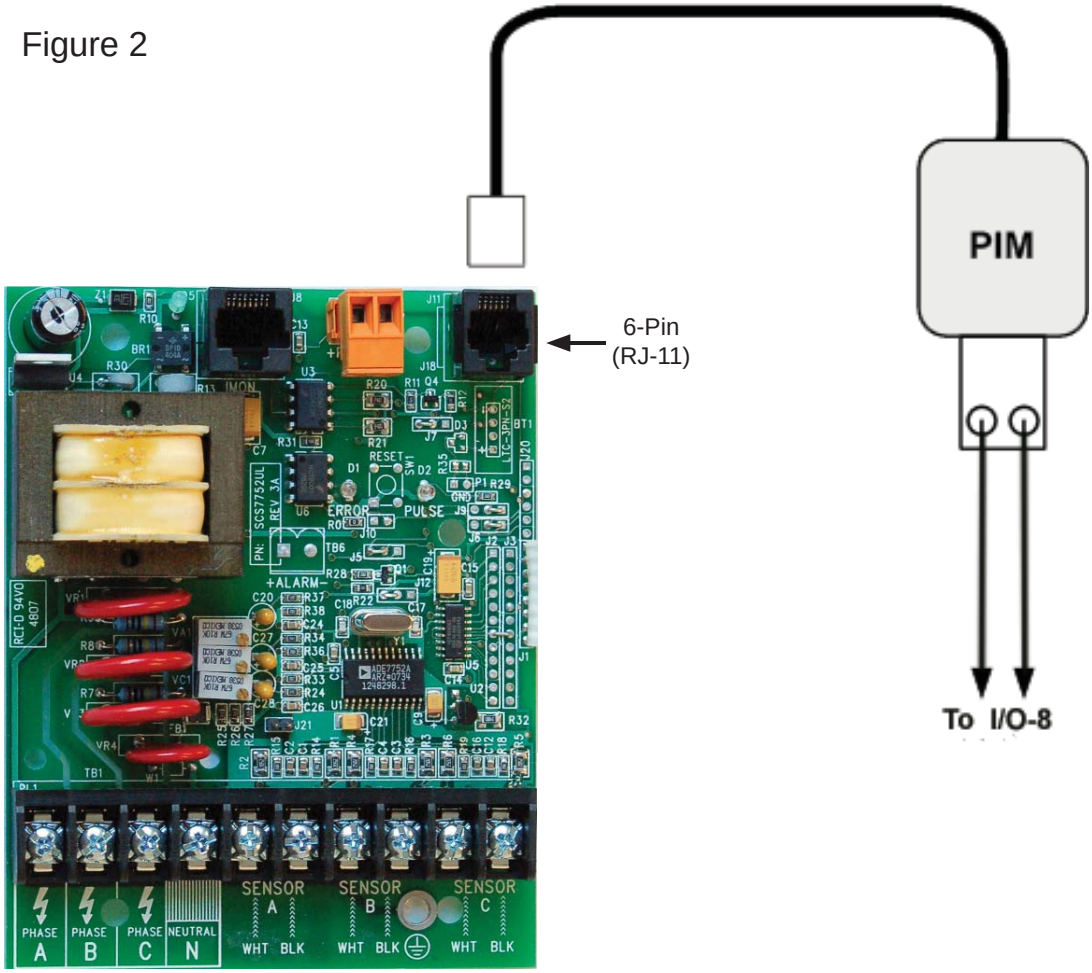
2.0 Installation Instructions

The E-Mon D-Mon® PIM plugs into the 6-PIN (RJ-11) modular jack located on the main board of the E-Mon Class 1000 and 2000 series of meters. It is important that the unit is not connected to the 8-PIN jack (RJ-45), as it will not function when installed in this manner.

Mounting of the PIM inside the meter can be accomplished with two-sided tape or velcro, as shown in the picture on page 1. The PIM can be mounted outside of the meter if required.

The output wiring is provided through a removable 2-screw terminal located on the body of the PIM. The 2 wires from the selected input terminals of the Web-Mon I/O-8 module will connect to the terminals on the PIM. There is no polarity requirement, so the wiring can go to either terminal point.

Figure 2



3.0 Pulse Values

The value of the output pulse of the PIM is dependent upon the amperage size of the meter it is connected to. The chart below will provide the proper values. The values listed are in watt-hours.

PIM Pulse Values

Meter Amps	25	50	100	200	400	800	1600	3200
Pulse Value	7.8125	15.625	31.25	62.5	125	250	500	1000

Pulse Value Shown in Watt-Hours

4.0 Technical Specifications

Size	L = 2”, W = 1.25”, H = 0.75” (including connector)
Input	Meter Supplied Power and Signal
Output	Solid-State Switch, N.O. Contact Equivalent
Maximum ON Resistance	2.5 ohms
Minimum OFF Impedance	100K ohms
Interface Voltage	1.5 to 36 Volts DC or AC
Environmental	-20 deg. C to 70 deg. C

E-Mon, LLC
850 Town Center Drive
Langhorne, PA 19047
(800) 334-3666
www.emon.com - info@emon.com