



# APM Power Meter

## Advanced Panel Meter

For single-phase, split-phase & 3-phase mains networks

### Key Features

- For single-, split- and 3-phase applications.
- Measures Active (W), Reactive (VAR) and Apparent (VA) power. • Displays electrical parameters on large, backlit LCD display.
- Features two independent opto-isolated digital outputs plus one analog 4-20mA output.
- Includes MODBUS® RTU communication as standard.
- Provides clear indication of electrical circuit performance.
- User-programmable scale and custom alarm messages display critical parameters and immediately alerts operators when a parameter is out of range.
- Programmable Current Transformer (CT) and Potential Transformer (PT) ratios.



Programmable dynamic backlight color



Warning flash

1% Accuracy

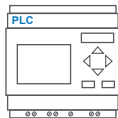
Combined digital and bar graph display



User configurable alarms



Programmable scale  
Measure single-, split- and 3-phase



2 Digital Outputs  
1 Analog Output

Less than 75mm deep

Front panel navigation buttons

### Instantaneous:

- Voltage (L-L and L-N)
- Current (L-L and L-N)
- Reactive Power (VAR)
- Active Power (W)
- Apparent Power (VA)
- Frequency (Hz)
- Power Factor (PF)
- THD Voltage & Current
- % Max Load

### Networks:

- Single phase, 2-wire
- Single phase, 3-wire (split-phase)
- 3-phase, 3-wire
- 3-phase, 4-wire



Open-type Measuring and Testing Equipment E469787



Modbus® RTU Connectivity



USB port for custom user settings via the free easy-to-use software

Hoyt Electrical Instrument Works, Inc.

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Penacook, NH 03303

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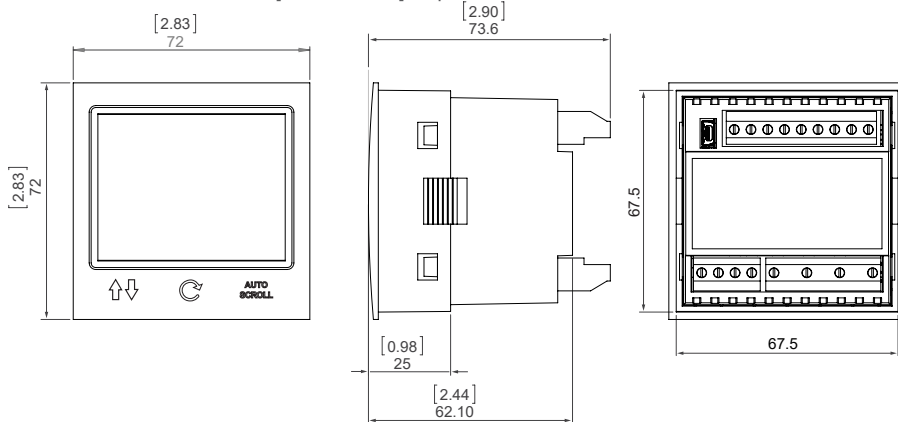
## Advanced Panel Meter

### Specifications

<b>Networks</b>	1P2W, 1P3W, 3P3W, 3P4W,
<b>Measurement</b>	
Frequency	45 - 65 Hz
Voltage measurement range	L-L 0 - 600VAC L-N 0 - 300VAC
Programmable PT range	1:1 to 1000:1
Current measurement range	0 - 5A
Programmable CT range	1:1 to 1000:1
Accuracy	1% (THD 5%) of full scale
<b>Environmental</b>	
Temperature - operating	-20 to +50°C
Temperature - storage	-40 to +70°C
IP rating (from the front)	IP65, NEMA type 4 and NEMA type 12
<b>Power Supply</b>	
Input	100 - 240 VAC
Supply frequency	50-60Hz
Max power	2W
<b>Display</b>	
Backlight colors	Red, Green, White
<b>Digital Outputs</b>	
Number	2
Type	Opto-Isolated
Operating modes	Momentary
Max voltage	24VDC
Max sink current	15mA
<b>Analog Outputs</b>	
Number	1
Analog output	4-20mA
<b>Communication</b>	Modbus® RTU
<b>Certification</b>	CE, RoHS, UL (pending)

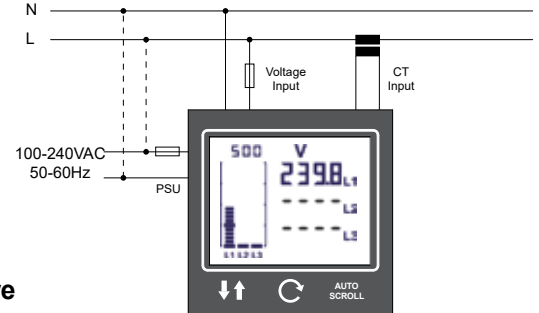
### Dimensions:

Panel cutout: 68mm x 68mm [2.68" x 2.68"] as per DIN43700/IEC61554

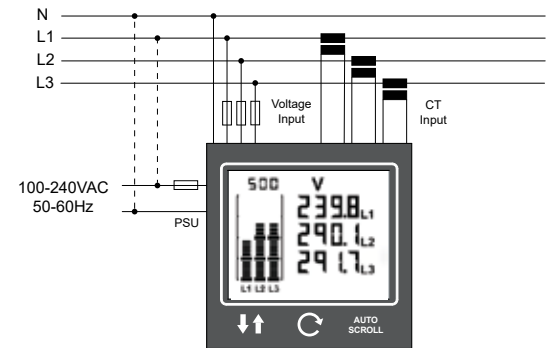


### Wiring Diagrams and Isolation

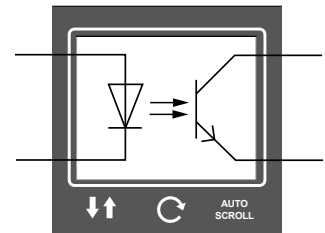
#### Single phase 2-wire (1P2W)



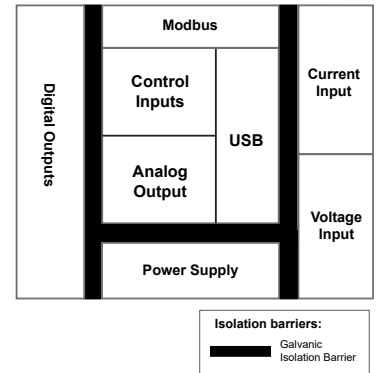
#### 3 phase 3-wire (3P3W)



#### Control Outputs



#### Isolation



### Part Numbers:

<b>APM-PWR-APO</b>	APM Power Meter, Positive LCD
<b>APM-PWR-ANO</b>	APM Power Meter, Negative LCD
<b>APM-PWR-XXX</b>	Custom Option