

# APM Power Meter

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



## Advanced Panel Meter (APM)

**Programmable dynamic backlight color**



Warning flash

**1% Accuracy**

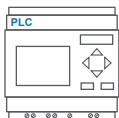
Combined **digital and bar graph** display



**Ten user configurable alarms**



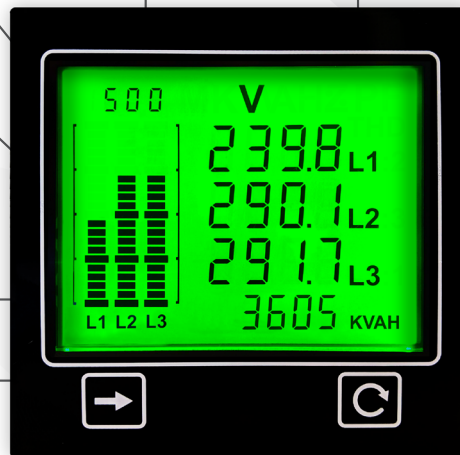
**Programmable scale**  
Measure **single-, split- and 3-phase**



**2 Digital Outputs**  
**1 Analog Output**



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



**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
- Alarm Status (available on Modbus communication)
- Phase Angle (available on Modbus communication)
- Total Energy (kWh or kVAh)

### Networks:

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



**Modbus®**  
RTU Connectivity

**Less than 75mm deep**



## 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.

**Go to [www.trumeter.com/apm](http://www.trumeter.com/apm) for further information**

## Specifications

### NETWORKS

### MEASUREMENT

Frequency

45 - 65 Hz

Voltage measurement range

L-L 0 - 600VAC

L-N 10 - 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

### ENVIRONMENTAL

Temperature - operating

-10 to +50°C

Temperature - storage

-40 to +70°C

IP rating (from the front)

IP65, NEMA type 4 and NEMA type 12

### POWER SUPPLY

Input

100 - 277 VAC

Supply frequency

50-60Hz

Max power

2W

### DISPLAY

Backlight colors

Red, Green, White

### DIGITAL OUTPUTS

Number

2

Type

Opto-Isolated

Operating modes

Momentary

Max voltage

24VDC

Max sink current

15mA

### ANALOG OUTPUTS

Number

1

Analog output

4-20mA

### COMMUNICATION

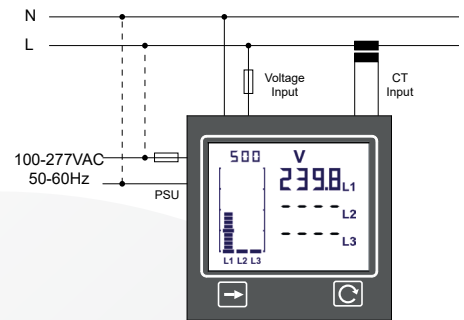
### CERTIFICATION

Modbus® RTU

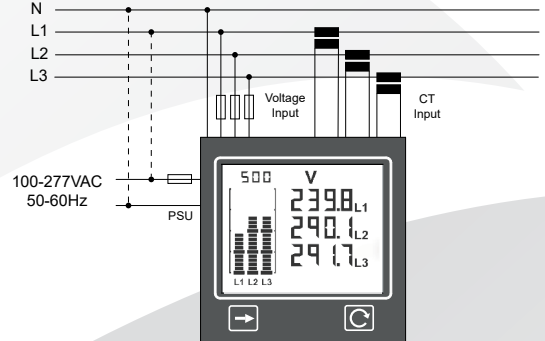
CE, RoHS, UL

## Wiring Diagrams and Isolation

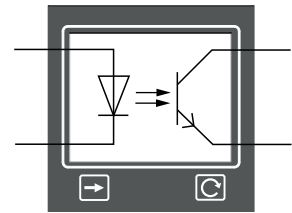
### Single phase 2-wire (1P2W)



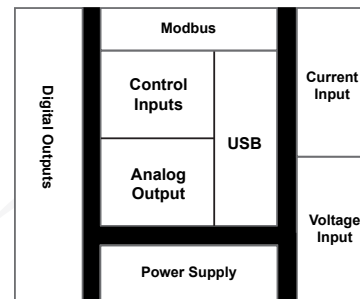
### 3 phase 3-wire (3P3W)



### Control Outputs

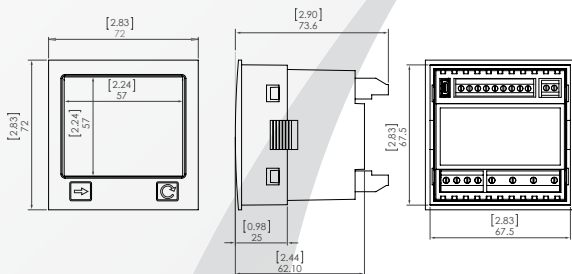


### Isolation



Isolation barriers:  
Galvanic Isolation Barrier

## Dimensions:



## Part Numbers

APM-PWR-APO

APM-PWR-ANO

APM-PWR-XXX

APM Power Meter, Positive LCD

APM Power Meter, Negative LCD (subject to MOQ and extended lead time)

Custom Option



Authorized Distributor:

**WESCHLER INSTRUMENTS**

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