



D1 International, Inc.

UP416ACV

DIGITAL AC VOLT METER

0-500VAC
110/220VAC LINE POWERED



The UP416ACV is a precision digital panel meter that is powered from a single phase 120/220VAC 50/60Hz power line. A compact DIN size case, snap-in panel mounting and, terminal blocks for electrical connections make this meter simple and economical to use. It is ideal for monitoring AC power lines and AC generators.

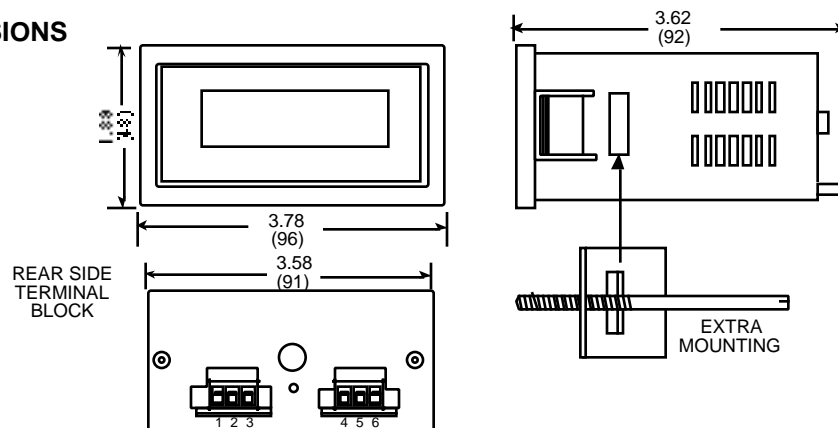
SPECIFICATIONS:

Input Measuring Range:	0-500VAC
Accuracy:*	0.5% \pm 1 count
Input Impedance:	10 Megohms
Power Input:	110VAC \pm 10%, 60Hz or 220VAC \pm 10%, 50Hz
Power Consumption;	<5 Watts
Conversion Rate:	Approx. 2.5 times/second
Temperature Coefficient:	100 ppm/ $^{\circ}$ C
Operating Temperature:	0 $^{\circ}$ C to +50 $^{\circ}$ C
Operating Humidity:	Up to 85% noncondensing
Readout:	Three digit, 0.8" red LED
Input Connections:	Two 3 position terminal blocks
Weight:	10.6 oz. (300gm)
Panel Cutout:	3.78"W x 1.78"H (91.8mm x 45.2mm)
	*Accuracy specified at 25 $^{\circ}$ C \pm 3 $^{\circ}$ C

WARNING:

This meter involves AC voltages that can be dangerous. A qualified electrician should be used for installation.

OUTLINE DIMENSIONS



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UP416ACV

UP416ACV CONNECTIONS

TURN OFF ALL POWER BEFORE PROCEEDING

MEASURING EXTERNAL AC VOLTAGE (0-500VAC)

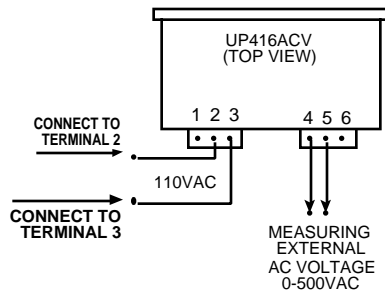


Fig. 1: 110VAC Input power hook-up

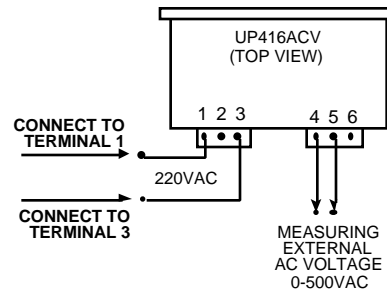


Fig. 2: 220VAC Input power hook-up

Using an insulated wire, connect terminals #4 and #5 to the external AC voltage that is being measured. Turn on AC meter input power (110VAC or 220VAC). The UP416ACV will read the external AC voltage (0-500VAC).

MONITORING METER INPUT SOURCE VOLTAGE

THE UP416 CAN BE USED TO MONITOR THE AC VOLTAGE THAT IS POWERING THE UP416ACV

TURN OFF ALL POWER BEFORE PROCEEDING

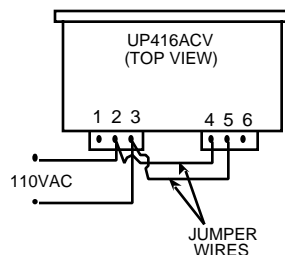


Fig. 3: 110VAC Input Voltage

- Place an insulated jumper wire from terminal #2 to terminal #4.
- Place an insulated jumper wire from terminal #3 to terminal #5
- Turn on 110VAC meter input power
- The UP416ACV will read the input 110VAC source voltage.

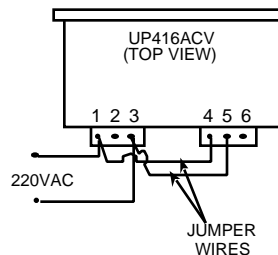


Fig. 4: 220VAC Input Voltage

- Place an insulated jumper wire from terminal #1 to terminal #4.
- Place an insulated jumper wire from terminal #3 to terminal #5
- Turn on 220VAC meter input power
- The UP416ACV will read the input 220VAC source voltage.