

D1 International, Inc.

DIGITAL AC LINE FREQUENCY METER

30.0 Hz - 80.0 Hz 110/220VAC LINE POWERED



FEATURES:

The UP416ACF is a precision digital panel meter used for monitoring AC power line and portable generator frequencies. It is powered from a single phase 120/220VAC 50/60Hz power source. a compact DIN size case, snap-in panel mounting, and terminal blocks for electrical connections make this meter simple and economical to use.

SPECIFICATIONS:

Measuring Range:30.0Hz to 80.0HzAccuracy:* $0.5\% \pm 1$ countInput Impedance:10K Ohms

Power Input: 1220VAC ±10%, 60Hz or 220VAC ±10%, 50Hz

Power Consumption: <5 Watts

Conversion Rate: Approx. 2.5 times/second

Temperature Coefficient: 110 ppm/°C

Operating Humidity:

Readout:

Input Connections:

Up to 85%, noncondensing
Three digit, 0.8" red LED
Two 3 position terminal blocks

Weight: 10.6 oz. (300gm)

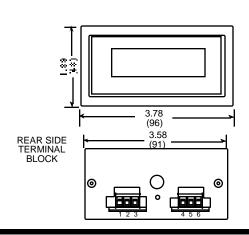
Panel Cutout: 3.8"W x 1.78"H (91.8mm x 45.2mm)

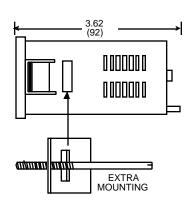
* Accuracy specified at 25°C ±3°C

WARNING:

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

OUTLINE DIMENSIONS:





Hardware supplied to mount meter on thicker panels.

DIMENSIONS IN INCHES (MM)

NOTE: Basic information and Input Connections are printed on a Guide Label attached to meter.

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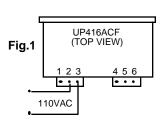




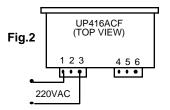
UP416ACF CONNECTIONS

TURN OFF ALL POWER BEFORE PROCEEDING

CONNECTING METER TO POWER LINE



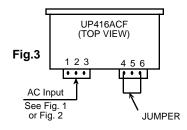
110VAC Input power hook-up



220VAC Input power hook-up

TURN OFF ALL POWER BEFORE PROCEEDING

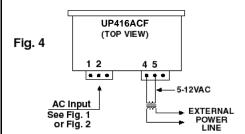
MONITORING INPUT LINE FREQUENCY



MONITORING INPUT LINE FREQUENCY

To Monitor line frequency of the AC voltage powering the UP4416ACF (110 or 220VAC) connect an insulated jumper wire between terminals 4 and 6. Turn on UP416ACF AC power line voltage. Meter will read power line frequency (30.0 - 80.0Hz)

MONITORING EXTERNALAC LINE FREQUENCY



MONITORING EXTERNAL AC LINE FREQUENCY

Use a step-down transformer between the external AC voltage source and the input of the UP416ACF.

Connect step-down transformer output (5-12VAC)* to terminals 4 and 5. Turn on UP416ACF power line voltage. Meter will read external power line frequency (30.0-80.0Hz.

NOTE

 AC voltage input to UP416ACF terminals 4 & 5 must not exceed 12VAC. Voltages in excess of 12VAC will cause permanent meter damage that is not covered by meter warranty.



