



Optional super bright LEDs



Optional Green Digit Display

Optional Custom Faceplate

## UM-35-HZ

**AC Line Frequency  
3 1/2 DIGIT with 0.56" LEDs  
in a NEMA type 1 Style Case**

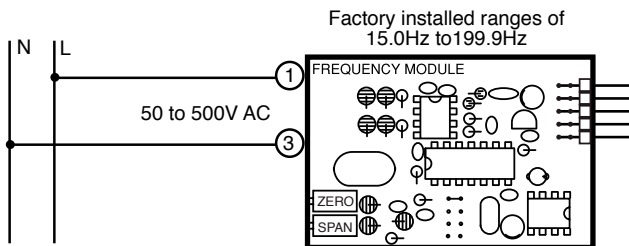
**An cost-effective meter for 15.0 to 199.9Hz  
AC line frequency measurement.**

### General Features

The UM-35-HZ is a cost-effective, utility, AC line frequency measuring meter with a standard range of 15.0Hz to 199.9Hz or an optional range of 40Hz to 400Hz. The unique resistively isolated differential input structure allows safe phase to phase line frequency measurements in multi phase systems.

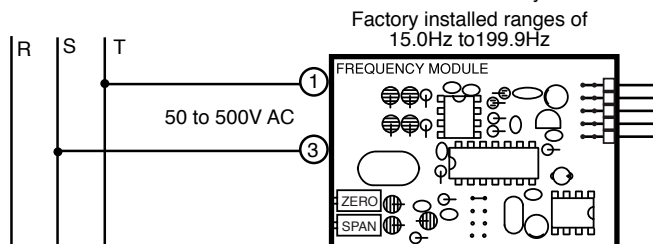
### Typical Application Connections

#### AC Line Frequency measurement in Single-phase Systems.



#### AC Phase to Phase Line Frequency measurement in Multi-phase Systems.

May be used with 3 Phase 3 Wire and 3 Phase 4 Wire Systems.



### Specifications

**Input Configuration:**.....Differential with Frequency to Voltage converter. Inputs resistively isolated to 1400V from the internal ground of meter by 1.94MΩ, so that phase to phase measurements up to 500V AC can be safely made.

**Full Scale Ranges:**.....Factory installed range of 15.0Hz to 199.9Hz.

**Input Impedance:**.....4MΩ

**A/D Converter:**.....12 Bit Dual Slope

**Accuracy:**.....±(0.05% of reading + 2 counts)

**Temperature Coefficient:** 100 ppm/°C (Typical)

**Warm Up Time:**.....2 minutes to specified accuracy

**Conversion Rate:**.....3 conversions per second (Typical)

**Display:**.....3 1/2 digit 0.56" Red LED display (std), Green or Super Bright Red are optional. Range 0 to 1999 counts.

**Decimal Selection:**.....Header under face plate, X•X•X•X•

**Over-range Indication:**.....1 (MSD) displayed all other digits blank

**Power Supply (std):**.....120/240V AC, 50/60/400 Hz. approx 1.5W.  
(Optn) VO-DC/ISO.....Isolated Switcher. 9 to 36V DC/12 to 24V AC

**Operating Temperature:**.....-10 to 50 °C

**Storage Temperature:**.....-20 to 70 °C.

**Relative Humidity:**.....95% (non-condensing)

**Case Dimensions:**.....Bezel 3.78"Wx1.89"H (96mm x 48mm)  
Depth behind bezel 3.36" (83.5mm) Plus 0.5 to .9" (12.7 to 22.8mm) depending on connector used.

**Weight:**.....NW. 1.2oz (0.34kg)

15.6oz (0.44kg). when packed.