

# Power Frequency Meter

UMF



## Features

True power system design complaints  
ANSI-IEEE, IEC, VDE standards  
High accuracy of 0.02%  
Display with super rate LED  
Crystal base guarantee long term stability

## Applied rules & standards

Measuring & conversion	IEC 688
Dielectric strength	IEC 688
Impulse & Surge test	ANSIC37.90/1989, IEC 255-3
Adaptability-power system	IEC 0110
Measuring reliability	VDE 3540

## Description

UMF, power frequency meter, really designed for power system use, provides wide input sensing voltage range from 30V to 600V, very accurate & stable conversion with a crystal heart. The unit guarantees accuracy & reliable long term stability.

True power system designing, the unit specification complaints ANSI-IEEE, IEC, VDE standards providing full protecting for surge & unusual over input.

## Specification

Accuracy(23±3°C)	0.02%fs + 1 count
Stability	< 20 ppm per degree C change, long term draft < 20 ppm draft per year
Digits & count	4-1/2 digits - 19999 counts.
Display	0.56" super rate LED
Input resistance	≤ 1 MΩ
Input over	1KVrms for 10 sec, 750V continuous
Response time	1 of per sec typically
Dielectrically strength	2.5 KVrms, terminals to reference ground (case), 2 KVrms for input to power
Surge test	ANSI-c37.90/1989, IEC 255-3 (1989)
Impulse voltage	1.2 X 50 us 4KV, oscillation wave 0.5us-100KHz 3KV or 1MHz - 0.25ms 2.5KV
Operating condition	Temperature range -10 to 55°C, 0-99% RH non-condensed storage -25 to 70°C, 20-99% RH non-condensed
Auxiliary power	AC ± 15% < 3.5 VA



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## Order form

Digits    Input voltage range    Model

4-1/2    30 ~ 600Vac rms    UMF 

Frame (in mm)

96 x 48	U
110 x 110	0

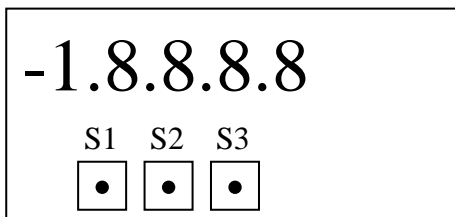
Auxiliary Power

AC / DC 30~250V	S
DC 24V ±20%	1

Counts

1.000 ~ 19.999 Hz	1
1.00 ~ 199.99 Hz	2
1.0 ~ 1999.9 Hz	3
1 ~ 20 KHz auto range	4

## Function Key



S1 : Exit the setting and return to mode of measurement

S2 : Increasing value or Select Type

S3 : Enter the setting or next figures

┘ : Keying Sx (S1、S2、S3)

Enter Setting :

1. Enter Password

┘S3 →  → ┘S3 →

2. Write Password (0011)

             
 ┘S2 → ┘S3    ┘S2 → ┘S3    ┘S3    ┘S3

3. Select Type

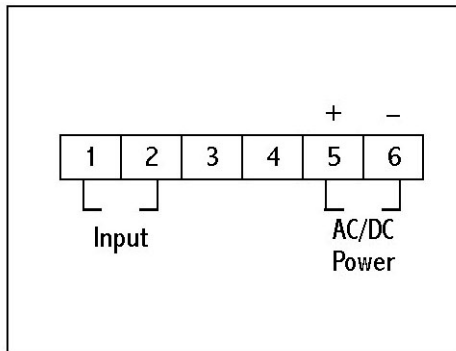
1-19999 Hz      
 ┘S2 ↓  
 1.0-1999.9 Hz      
 ┘S2 ↓  
 1.00-199.99 Hz      
 ┘S2 ↓  
 1.000-19.999 Hz      
 ┘S2 ↓  
 1.0000-1.9999 Hz      
 ┘S2 ↓  
 1.0000-19999 Hz   

┘S2

4. Escape Setting and Save

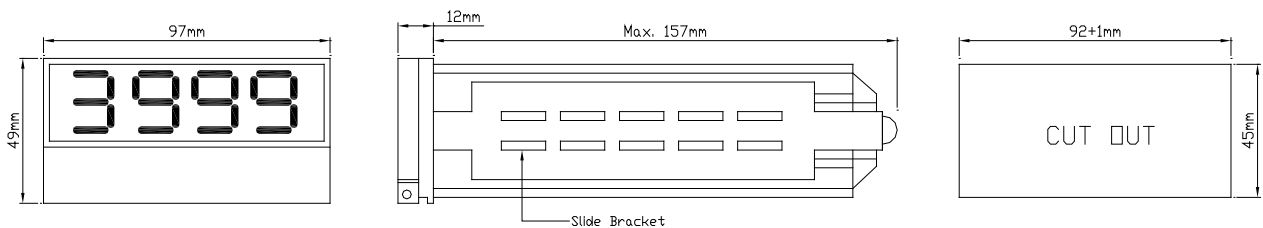
┘S1

## Wiring



## Dimension

### U type



### O type

