

AC Voltage Meters



Feature

True power system design complaints
ANSI-IEEE, IEC & VDE standards
High over capability
Available 4-1/2 digits
High accuracy of 0.2% fs
Measurement of distorted waveform signals
Super rate display of 0.56"

Applied rules and standards

Measuring & conversion	IEC 688
Dielectric strength	IEC 688
Impulse & Surge test	ANSI C37.90.1/1989 IEC 255-3 (1989)
Adaptability-power system	IEC 0110
Measuring reliability	VDE 3540

Description

The model UMV series, are designed under micro base, and it also designed for general performance of accept AC input signals & convert AC to DC of average responding to scale rms reading.

The unit type of ration input ranges are defined to accept a secondary signal from PT & calibrated to primary reading & the named type of input ranges just directly follow inputs as a display reading.

The designed specifications of the units, truly a real power system design, compliant ANSI-IEEE & IEC, VDE those standards providing full protection for surge intrusion & unusual over input to assure reliable operation.

Specification

Accuracy (23±3°C)	0.2% fs
Stability	Temperature coefficient < 50 ppm per degree C. Long term draft < 0.2% per year
Digits / counts / display	Maximum 19999 counts of 4-1/2 digits. 0.56" super rate LED
Response time	Sample rate 1 of per sec typically
Input burden	0.25VA maximum
Input over	Voltage input : maximum continuous 750V or 3 x rated which ever great
Frequency	48 - 400 Hz
Dielectric strength	2.5KV rms / 1 minute, all terminals to reference ground (case) 2KV rms / 1 minute, input terminals to power terminals
Surge test	ANSI C37.90.1/1989, IEC 255-3 (1989)
Impulse voltage	Impulse voltage 1.2 x 50 us 4KV Oscillation wave 0.5us - 100KHz 3KV & 1MHz - 0.25ms 2.5KV
Operation condition	Temperature range -10 to 55°C, 0 to 99% RH non-condensed Storage -25 to 70°C, 20-99% RH non-condensed
Auxiliary power	AC / DC version < 3.5VA, DC option version ±20% < 5 watts

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Order from

Function	Model
Average to RMS reading	UMV

Frame (in mm)

96X48	U
110X110	O

Auxiliary power

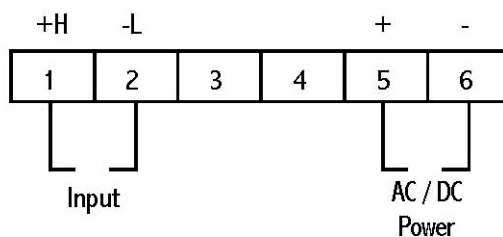
AC / DC 30-250V	★	S
DC option 24V		1

★ : This segment was originally used in the circuit of traditional transformer, and new model uses switching power circuit where in the wide range power system

Input ranges

PT ratio = P/S P : Primary S : Secondary								Named input type	
Ratio type									
D = 1 / √3									
3.30K / 110	3.35K / 115	3.60K / 120	AL	3.30K / 110D	3.35K / 115D	3.60K / 120D	AP	0-400.0mV	12
6.60K / 110	6.90K / 115	7.20K / 120	BL	6.60K / 110D	6.90K / 115D	7.20K / 120D	BP	0-4.000V	13
11.0K / 110	11.5K / 115	12.0K / 120	CL	11.0K / 110D	11.5K / 115D	12.0K / 120D	CP	0-40.00V	14
13.2K / 110	13.8K / 115	14.4K / 120	DL	13.2K / 110D	13.8K / 115D	14.4K / 120D	DP	0-400.0V	15
22.0K / 110	23.0K / 115	24.0K / 120	EL	22.0K / 110D	23.0K / 115D	24.0K / 120D	EP	0-1000V	16
33.0K / 110	34.5K / 115	36.0K / 120	FL	33.0K / 110D	34.5K / 115D	36.0K / 120D	FP		
66.0K / 110	69.0K / 115	72.0K / 120	GL	66.0K / 110D	69.0K / 115D	72.0K / 120D	GP	0-200.00mV	22
154K / 110	161K / 115	168K / 120	HL	154K / 110D	161K / 115D	168K / 120D	HP	0-2.0000V	23
330K / 110	345K / 115	360K / 120	IL	330K / 110D	345K / 115D	360K / 120D	IP	0-20.000V	24
								0-200.00V	25
The other range									VY

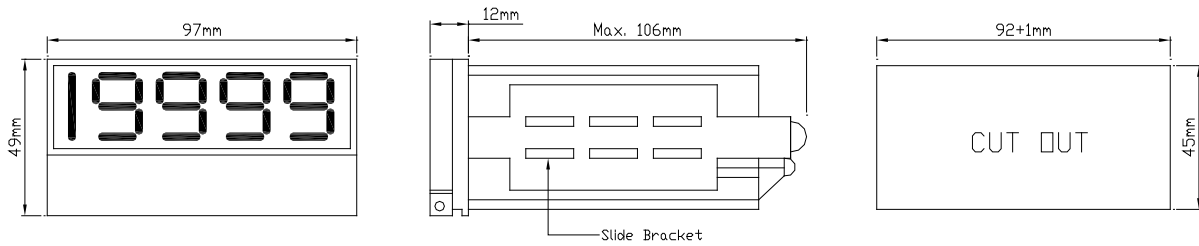
Terminal connection



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Dimension

U TYPE



O TYPE

