

## DIGITAL VAF METER



# DIGITAL VAF METER

**Prok dv's**®

An ISO 9001 : 2008 Company

**DIGITAL MICROCONTROLLER BASED THREE PHASE  
VOLTAGE+CURRENT+FREQUENCY(VCF/VAF METER)**

## Features

- Accuracy class 0.5 / 1.0
- Micro Controller based
- Built in transducers
- Built in Selector Switch
- Built in Scroll / Hold Facility
- Field Selectable CT Ratio
- Compact in size
- 2-Line, 16- Char back lit LCD Display
- Tropicalised Design and Time Tested
- Low Power consumption
- Scroll Facility
- Continuous display of line voltage, phase voltage, three phase currents and system frequency

## Applications

- Electrical Distribution Control & Relay Pan
- Power Control Centers
- Motor Control Panels
- Test Benches and Laboratory Equipments
- Wind Energy and Co-Generation Plants
- Air Conditioning / Refrigeration Plants

## Specification

SPECIFICATION	CURRENT		VOLTAGE		FREQUENCY	
	Nominal	Range	Nominal	Range	Nominal	Range
<b>Aux. Supply Voltage AC</b>	110V 230V	80-130V 160-300V	110V 230V	80-130V 160-300V	110V 230V	80-130V 160-300V
<b>Sensing CT</b>	5.0 Amps 1.0 Amps	0.25-6.0A 0.05-1.2A	----- -----	----- -----	----- -----	----- -----
<b>Sensing Input Voltage AC</b>	----- ----	----- ----	63.5V 110V 230V	50-76V 80-130V 160-300V	----- -----	----- -----
<b>Three Phase 3 Wire/ 4 Wire AC</b>	Acc.class1.0[±(1.0% of Full Scale reading +1 count)]		Acc.class1.0[±(1.0% of Full Scale reading +1 count)]		Acc.class0.2[±(0.2% of Full Scale reading +1 count)]	
<b>CT Ratio</b>	5/5 to 2000/5		-----		-----	
<b>Burden</b>	0.25VA max/ Phase (Voltage / Current Input)		0.25VA max/ Phase (Voltage / Current Input)		-----	
<b>Ambient Temperature</b>	+5°C to 55°C		+5°C to 55°C		+5°C to 55°C	

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<b>Humidity</b>	<95% RH Non condensing	<95% RH Non condensing	<95% RH Non condensing
<b>Weight</b>	250gms		
<b>Mounting</b>	flush	flush	flush
<b>Dimensions</b>	96 X 96X70mm		
<b>Panel Cut Out Size</b>	90mmX90mm		
<b>Models</b>	PDM 9030 - VAF METER PDM 9030VF - VF METER PDM 9030AF - AF METER		

### Setting Procedure

Power up the VAF - Connect the suitable Aux. supply to the P & N terminals of the VAF meter. i.e. (230V AC 50Hz  $\pm$  15%)

Then the Display in the VAF meter initially shows

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The display then shows the VOLTAGE, CURRENT and FREQUENCY of all the phases, LINE to LINE VOLTAGE as per shown below.

Vyn=0232  
Iy=00.00      F=49.08

Vrn=0232  
Ir=00.00      F=49.08

Vbn=0232  
Ib =00.00      F=49.08

Vry=0232      Vyb=0232  
Vbr=0232      F=49.08

Vrn=0232      Vbn=0232  
Vyn=0232      F=49.08

Ir=00.00      Iy=00.00  
Ib=00.00      F=49.08

Note: Respective phase LED's (R, Y, B) are glowing while displaying the respective phase voltages & currents

Press the Dec/Hold Key to hold the screen for 5 sec after that Automatically HOLD status will changed to display status.

#### Ct Ratio Setting

Range – 5/5 to 2000/5 at steps of 5/5

After power up the Digital Micro controller Based Three Phase Voltage + Current + Frequency (VLF/VAF Meter), press the MODE/SET key to enter in to the ct ratio selection mode. The display show

Ct Ratio = 2000/5

Press the Increment key to increase the Ct Ratio or

Press the Decrement key to decrease the Ct Ratio.To set the desired Ct Ratio press the MODE/SET key.

Then the Display will show

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And then continuing the normal operation

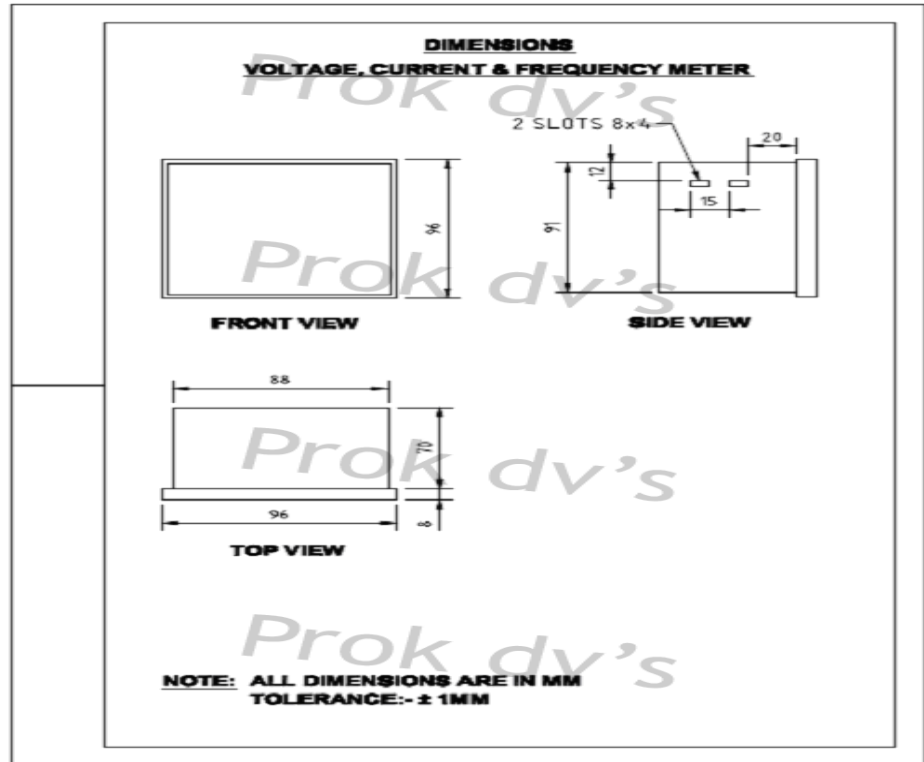
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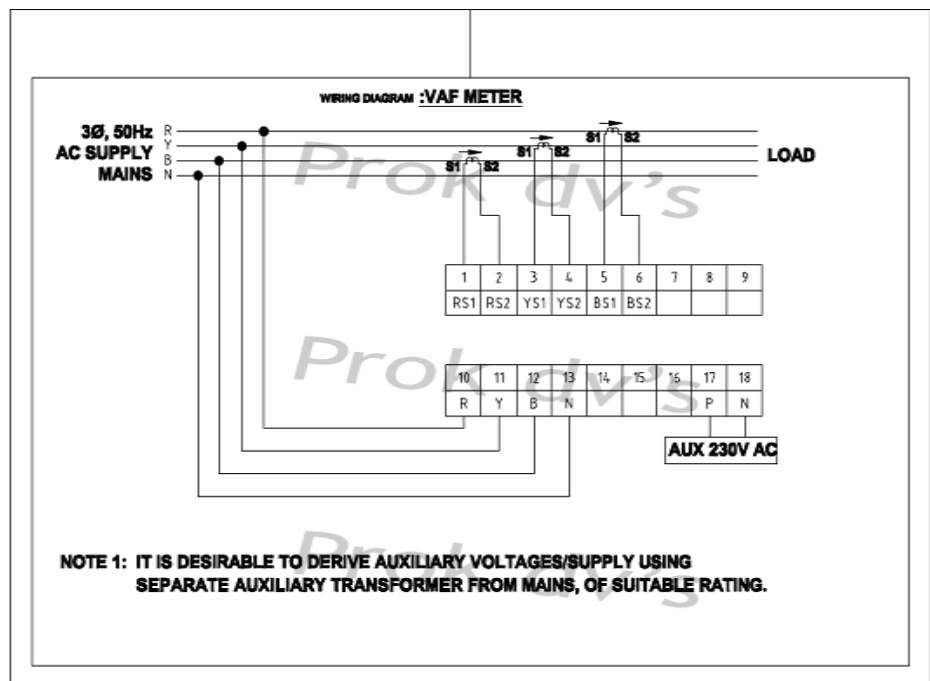
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## Mechanical Dimensions



## Wiring Diagram

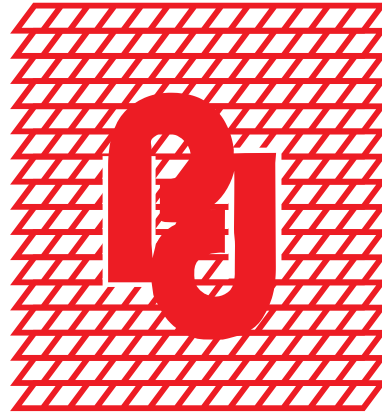


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