

## DIGITAL METERS



# DIGITAL METERS

# Prok dv's®

An ISO 9001 : 2015 Company

DIGITAL AMMETERS, VOLTMETERS, FREQUENCY METER



## Features

- Accuracy class 0.5/1.0
- Solid State version
- Built in transducers
- Built in Selector Switch or without selector switch
- Compact in size with Aesthetic value
- 7 segment red LED Display
- Tropicalised Design and time tested
- Low power consumption

## Applications

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

## DIGITAL AMMETERS, VOLTMETERS, FREQUENCY METER



### Technical Specifications

SPECIFICATION	AMMETER		VOLTMETER		FREQUENCY METER	
	Nominal	Range	Nominal	Range	Nominal	Range
Aux. Supply Voltage AC	110V 230V	80-130 V 160-300V	110V 230V	80-130 V 160-300V	110V 230V	80-130 V 160-300V
Sensing CT	5.0 A 1.0 A	0.25 -6.0A 0.05 -1.2A	---	---	---	---
Sensing Input Voltage	---	---	63.5V	50 -76V	---	---
Single Phase/	---	---	110.0V	80 -130V	---	---
Three Phase 3	---	---	110.0V	80 -130V	---	---
Wire/4Wire AC	---	---	415.0V	300 -500V	---	---
Sensing frequency Input	---	---	---	---	50 Hz	20 -99.99Hz
Accuracy Class Standard	Acc.class1.0[ (1.0% of Full Scale reading + 1Count)]		Acc.class1.0[(1.0% of Full Scale reading + 1Count)]		Acc.class0.2[(0.2% of Full Scale reading + 1Count)]	
Optional	Acc.class0.5[ (0.50% of Full Scale reading + 1 Count)]		Acc.class0.5[ (0.50% of Full Scale reading + 1 Count)]		----- ----- -----	
Burden	0.25VA max/Phase (Voltage/Current Input) 3.0VA max on Aux. Supply		0.25VA max/Phase (Voltage/Current Input) 3.0VA max on Aux. Supply		3.0VA max on Aux. Supply	
Ambient Temperature	0-50° C		0-50° C		0-50° C	
Humidity	<95% RH Non condensing		<95% RH Non condensing		<95% RH Non condensing	
Weight	340 grams		300 grams		360 grams	
Mounting	Flush		Flush		Flush	
Dimensions	96x96x75 mm		96x96x75 mm		96x96x75 mm	
Also available in 144 X 144	144 X 144 X 95mm		144 X 144 X 95mm		144 X 144 X 95mm	
Panel Cutout Size	90x90mm		90x90mm		90x90mm	
144 X 144mm Cutout Size	137x137mm		137x137mm		137x137mm	

# DIGITAL METERS

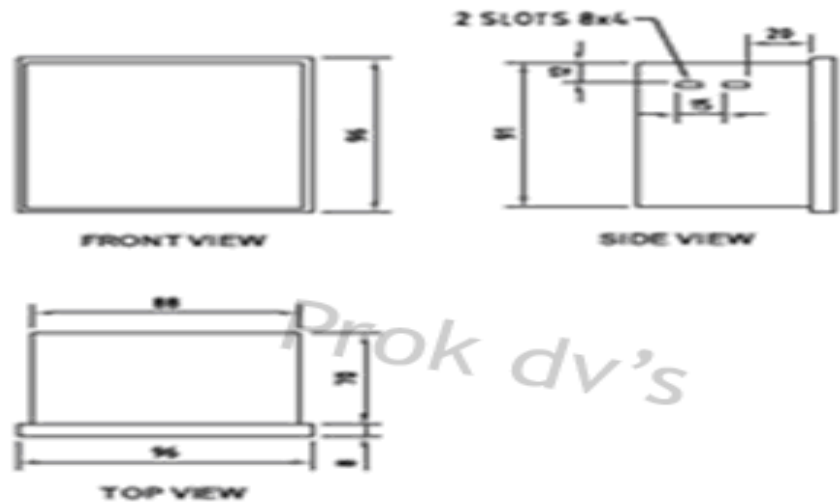
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MECHANICAL DIMENSIONS OF VOLTMETERS,  
AMMETERS & FREQUENCY METER



NOTE: ALL DIMENSIONS ARE IN MM  
TOLERANCE:- ± 0.1MM

# DIGITAL METERS

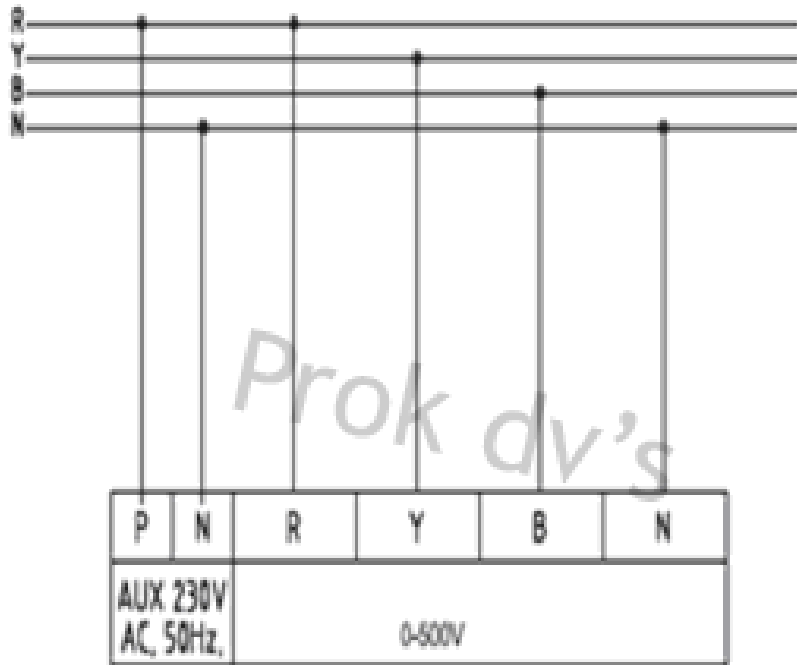
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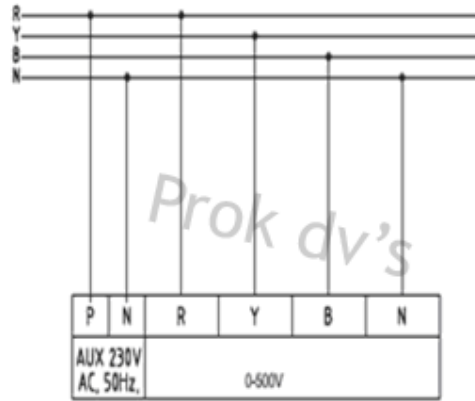


VOLTMETER WITH SELECTOR SWITCH

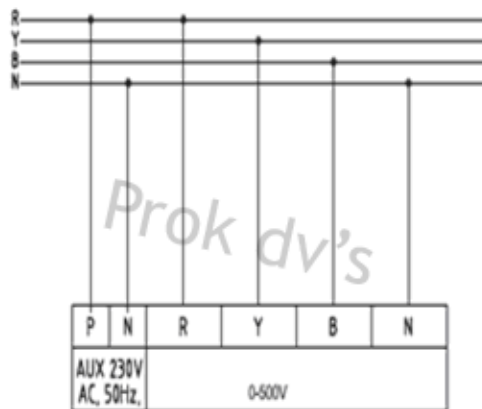


## DIGITAL AMMETERS, VOLTMETERS, FREQUENCY METER

### WIRING DIAGRAM AMMETER WITH SELECTOR SWITCH



### WIRING DIAGRAM FREQUENCY METER



## DIGITAL POWER METERS

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- Compact in size with Aesthetic value
- 7 segment red LED Display
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### Applications

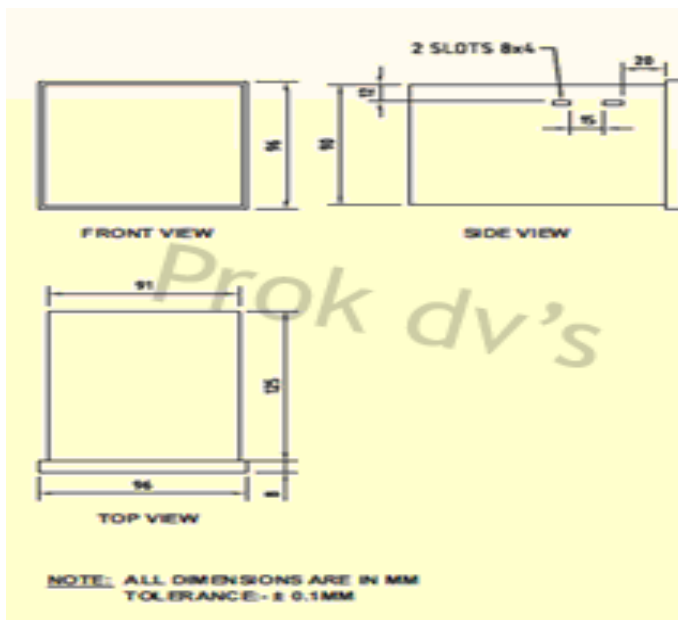
- Electrical Distribution Control & Relay Panel
- Power Control Centers
- Motor Control Centers
- Generator Control Panels
- Test Benches and Laboratory Equipments
- Wind Energy and Co-Generation Plants
- Air Conditioning/Refrigeration Plants

### Technical Specifications

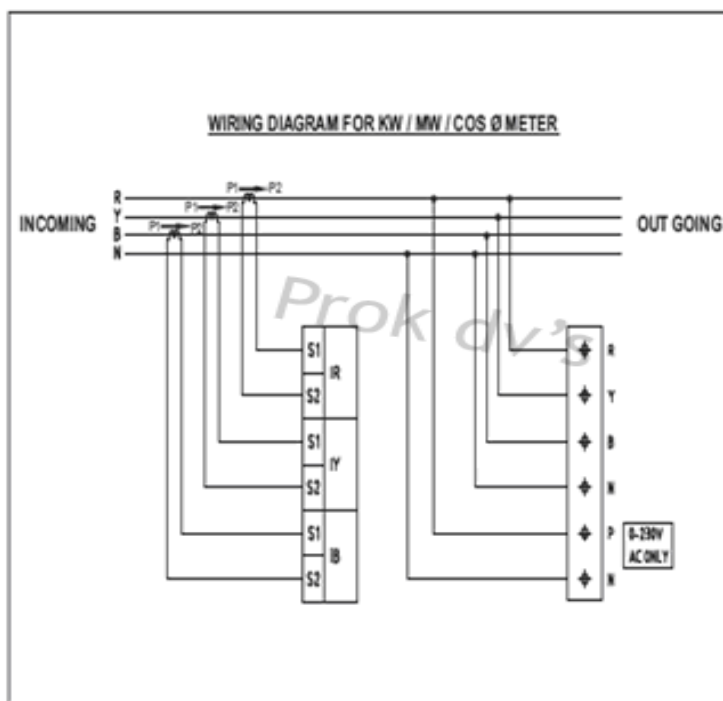
SPECIFICATION	KW METER		PF METER	
	NOMINAL	RANGE	NOMINAL	RANGE
Aux supply voltage AC	110V 230V	80-130V 160-300V	110V 230V	80-130V 160-300V
Sensing CT	5.0A 1.0A	0.256.00A 0.051.2A	5.0A 1.0A	0.256.00A 0.051.2A
Sensing Input Voltage AC	110V 240V	80-130V 160-300V	110V 240V	80-130V 160-300V
Three Phase, Three Wire (RYB) & Three Phase, Four Wire (RYBN)	415VAC	300500V	415VAC	300500V
Accuracy Class Standard Burden	Acc.class1.0[ (1.0% of Full Scale reading + 1Count)]		Acc.class1.0[ (1.0% of Full Scale reading + 1Count)]	
Ambient Temperature	0.26VA m ax/phase (Voltage / current input)3.0VA m ax on auxiliary supply		0.26VA m ax/phase (Voltage / current input)3.0VA m ax on auxiliary supply	
Humidity	0-50C		0-50C	
Weight	< 95% RH non condensing		< 95% RH non condensing	
Mounting	600 grams		600 grams	
Dimensions	Flush		Flush	
Also available in 144 X 144mm	96x96x120mm		96x96x120mm	
Panel Cutout Size	144 X 144 X 95mm		144 X 144 X 95mm	
144 X 144mm Cutout Size	90x90mm		90x90mm	
Power Factor Range	137x137mm		137x137mm	
Full Scale Reading	-----		0.5 LA G- UPF- 0.5 LEAD	
	3.594 KW X MF or 999 KW (direct reading)		0.99 LA G OR LEAD	

## DIGITAL POWER METERS

### MECHANICAL DIMENSIONS OF KW/MW/COS $\phi$



### WIRING DIAGRAM OF KW/MW/COS $\phi$



$$\text{Multiplication Factor} = \frac{\text{Primary Current in AMPS}}{\text{CT Secondary Current in AMPS}}$$



**DIGITAL AMMETERS, VOLTMETERS, FREQUENCY  
METER, DIGITAL POWER METERS**



**ISO 9001-2015**

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