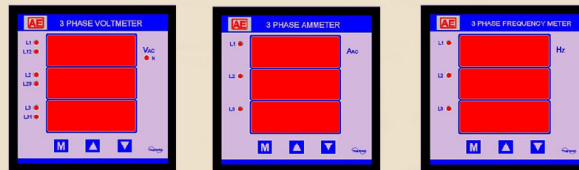




3 Phase 3 Line V/I/F meter *True RMS*

Instrument
Division

Digital Panel meter - 3Phase True RMS, Voltage / Current / Frequency



Introduction

The 3 Phase 3 Line V / I / F meter measures the true RMS voltage / currents OR frequency of three phase electrical system. These parameters are displayed on three rows of four digit seven segment LED displays. On 1st page the first row displays R phase reading (Phase To Neutral) 2nd row displays Y phase reading (Phase To Neutral) 3rd row displays B phase reading (Phase To Neutral) On 2nd page (For Voltmeter Only) the first row displays R - Y phase reading (Phase To Phase) 2nd row displays Y - B phase reading (Phase To Phase) 3rd row displays B - R phase reading (Phase To Phase)

Features:

- ✓ Voltage , Current, Frequency measurement (Any One)
- ✓ True RMS measurement
- ✓ State of Art Microcontroller Based Design.
- ✓ Ultra bright 4 –Digit, 3 -Row LED Display
- ✓ Site programmable CT ratio. (For Current Meter)
- ✓ Site programmable PT ratio. (For Voltage Meter)
- ✓ MODBUS RS 485 Communication (optional)
- ✓ 3 Row of 4 Digit LED Display

Optional features

- MOD BUS communication.
- Baud Rate programmable.
- Device ID programmable

Applications

- Generation Control Panels
- Distribution Control Panels
- Commercial Panels

Specifications

Nominal Input Voltage Range	0- 750 V AC L-N (1300 V L-L)
Nominal Input Current Range	0 - 5 A or 0 - 1A AC / Phase
Nominal Input Frequency	45 HZ to 55 HZ
Computation	True RMS
Max. continuous input overload Voltage	120% of nominal
Max. continuous input overload current	120% of nominal
Frequency	45-65 HZ
Auxiliary Supply	18 - 60 V AC / DC 85 - 285 V AC / DC

Accuracy Class

Voltage (V)	1.0 % of Full Scale Indication
Current (A)	1.0 % of Full Scale Indication
Frequency (HZ)	0.2 HZ
Nominal input Voltage burden Per Phase	0.2 VA (Max)
Nominal Input Current burden Per Phase	0.2 VA (Max)
Auxiliary Supply Burden	2 VA Maximum.
Display	3 Row of 4 Digit (14 mm / 7 Segment) LED Display

Optional Feature

Communication	With RS 485 Modbus
Type	2-wire half duplex
Baud Rate	4800,9600,19200

Mechanical Specification

Enclosure style	Flush mounting with side clamps.
Dimensions	96x96x80
Panel Cut-out	92x92mm
Panel thickness	1-5mm
Front protection rating	IP 52
Case protection rating	IP 30
Material	ABS
Weight	350gm
Terminals	Shrouded screw -clamp

Environment

Operating Temperature	0°C to +60°C
Storage temperature	-20° to +70° C
Temperature coefficient	100 ppm / C
Dielectric Strength	2KV RMS for 1 minute
Insulation resistance	> 20M Ω @ 500V DC.



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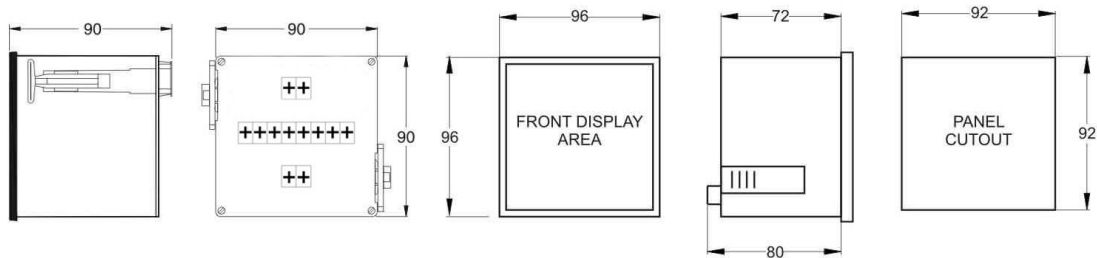
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Monitoring the Parameters

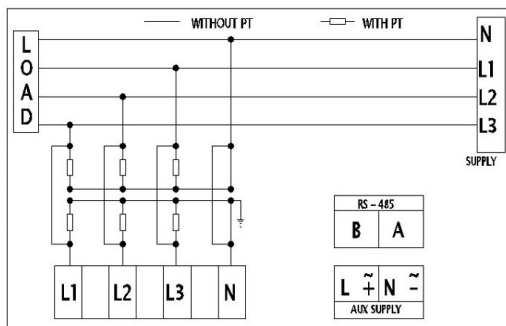
When the Auxiliary supply of the meter is switched ON, the display shows the voltage / current OR frequency of the 3 phase input signal. For voltmeter 1st page displays L1,L2,L3 readings & 2nd page displays L12, L23 & L31 readings. The page is selected by up / down keys. For current meter & frequency meter only single page is given it displays L1,L2,L3 readings. The phase is indicated by the respective LED.

Meter Dimensions & Installation cut out



Connection Diagram :

1) 3 Phase Voltage / Frequency Meter



2) 3 Phase Current Meter

