NEPTUNE VIF METER

FEATURES

State of Art Microcontroller Based Design

3 Line ultra bright LED display

Shows Phase Wise & Average Parameters

Site programmable CT ratio(Reduced Inventory)

True RMS measurement

Password Protection

Run Hour DATA { For DG Sets}

RPM

APPLICATION

GeneratorControl Panel

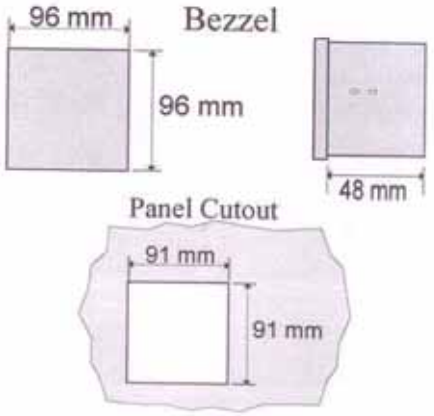
Distribution Control Panel

Load Analysis System

PARAMETERS

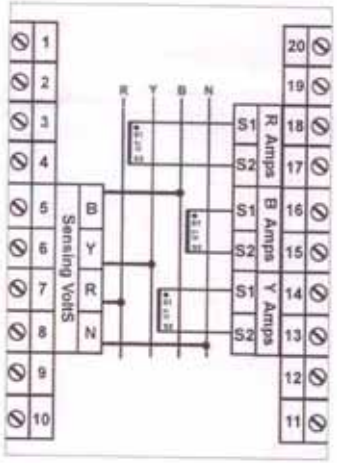
- ✓ Volts : R Y (Phase - Phase)
  YB (Phase - Phase)
  BR (Phase - Phase)
  Average (Phase - Phase)
  RN (Phase - Neutral)
  YN (Phase - Neutral)
  BN (Phase - Neutral)
- ✓ Amps : R Phase
  Y Phase
  B Phase
  Average
- ✓ Frequency : System
- ✓ Run Hour
- ✓ RPM

MECHANICAL DIMENTION

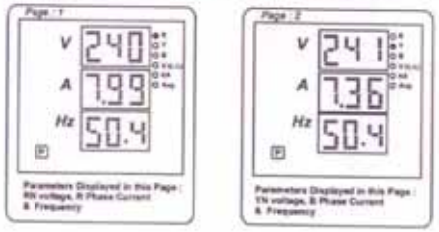


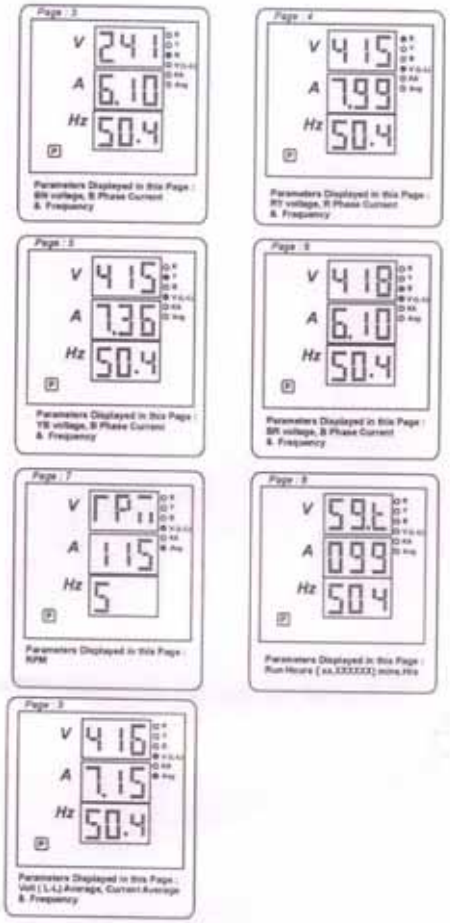
Electrical Wiring / Connection Diagram

BACK VIEW



MEASUREMENT PAGES





PROGRAMMING

1) Press [P] key & Power ON the meter.

2) The Meter enters programme mode.

3) Press [P] Key to set the CT Primary { 5, 10, 15, 20, 25, 30, 40, 50, 60, 75, 80, 100, 125, 150, 200, 250, 300, 400, 500, 600, 625, 750, 800, 1000, 1200, 1250, 1500, 1600, 2000, 2500, 3000, 4000 &5000 Amps}.

4) After setting the CT ratio leave the meter for 8 Sec. the Value gets stored.

5) During normal meter operation press the [P] key for few seconds to change from Auto / Manual scrolling mode.

SPECIFICATIONS

Input : 3 phase 4 wire
Volts - Range 85 - 130V for 110 V model
- Range 330 - 470V for 415 V model
Amps - 0.25 - 6.0 Amps for 5A model
- 0.05 - 1.2 Amps for 1A model
Freq - Through R phase (Internally)

Burden : 0.2 VA max. per input for Voltage & Current Signals
3 VA max. on Aux. Supply

Display : 3 Line x 3 Digit
(0.56 Inches 7 Segment LED Display)

Accuracy :Class 1.0 for Volt / Ammeter
For Hz 0.1 % of full scale

Resolution : 0.1 for Frequency Meter
0.1 For CT ratio < 100 Amps.
1Count for CT ratio >100 A - 1000 A
0.01 K A for CT ratio >1000 Amps.
1 Count for Volts

Computation : True RMS
Frequency : 45 Hz - 55 Hz.
Ambient : 0 - 50°C
Humidity : < 95 % Non-condensing
Weight : 250gms
Dimensions : 96 X 96 X 48 mm (L x W x D)
Panel Cutout : (90 $^{+1}_{0}$)mm X (90 $^{+1}_{0}$) mm
Mounting :Flush Mounting with side clamps.

TEST CERTIFICATE

Type : VIF METER

Accuracy : Class 1.0 for V & A ; 0.1% of FS for Hz
Accuracy TEST:

VOLTAGE		CURRENT		FREQUENCY
10%	100%	10%	100%	100%
+/- 1.0%	+/- 1.0%	+/- 1.0%	+/- 1.0%	+/- 1.0%
OK	OK	OK	OK	OK

Note:
A) For Digital Readouts the erroe is computed in counts.

– Class 1.0 = ±1% of Full Scale + 1 count
– Class 0.5 = ± 0.5% of Full Scale + 1 count

Tested By.: Mr.Arun
Date : 02 / 07 /2010
B.C. : 2610 / 100 / VIF