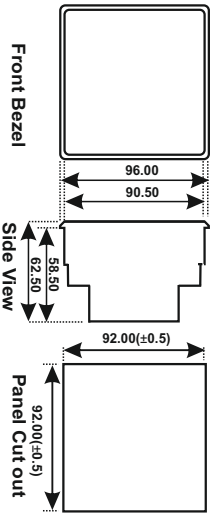




MECHANICAL INSTALLATION



Note : All dimensions are in mm.

SPECIFICATION

- Display** : 3 rows of 3 digits Seven segment Red color display of 0.56" digit height.
 - Wiring Input** : 3Ø-4 wire, 1Ø-2 wire and 3Ø-3 wire System 3Ø-3 wire to be mentioned while ordering .
 - Rated Input Voltage (True RMS)** : 11 to 325V AC(L-N) and 19V to 563 VAC(L-L).
 - Rated Input Current (True RMS)** : Nominal 5A AC (Min. : 100mA - Max 6A AC)
 - Frequency Range** : 10.0-88.0 Hz.
 - C.T Ratio** : 5A - 25,000A AC i.e. 25,00A by 15 A CT & 1A - 5000A AC i.e. 5,00KA by 1 A CT (Programmable for any value, 5000 is max. multiplier).
- Example : a)** For Current range upto 200A, select **Cr** = 200/5=40 for 15A C.T and 200/1=200 for 1A C.T.
b) For Current range upto 5000A or 5,00KA, select **Cr** = 5000/5=1000 for 15A C.T and 5000/1=5000 for 1A C.T.
- P.T Ratio** : (Programmable for any value, 5000 is max. multiplier)
- Example : a)** 11.0KV/110V, Select **Ptr** = 100.
b) 33.0KV/110V, Select **Ptr** = 300.
c) 220KV/110V, Select **Ptr** = 2000.
d) 440KV/110V, Select **Ptr** = 4000.

1

- RPM** : 80 - 10560 (for pole selection between 1 - 15) and for Freq. Range 10 Hz - 88Hz.
- Run Hour** : 0 - 99999.9Hr.
- Burden** : 0.5VA @ 5A Per Phase.
- Auxiliary Supply Range** : 230 VAC (±20%), 50Hz, 110 VAC (±20%), 60Hz. [Separately mention at the time of Ordering]
- Temperature Range** : 0 - 50 °C (Operating), -20 to 70 °C (Storage).
- Humidity** : Upto 85% RH (non-condensing).
- Mounting** : Panel Mounting.

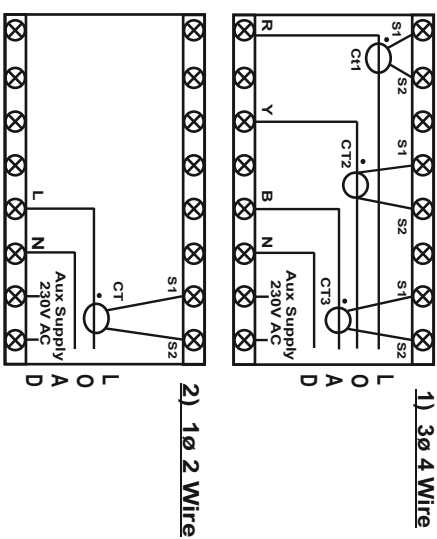
ACCURACY

- Voltage (VLN)** : ± 1.0%
- Voltage (VLL)** : ± 1.0%
- Average Voltage (VLN)** : ± 1.0%
- Average Voltage (VLL)** : ± 1.0%
- Current** : ± 1.0%
- Average Current** : ± 1.0%
- Frequency** : ± 0.1Hz
- Run Hour** : ± 1%
- RPM** : ± 0.5%

RESOLUTION

- Voltage / Current** : Depends on P.T and C.T Ratio settings.
- Frequency** : 0.1 Hz.
- RPM** : 1 RPM.
- Run Hour** : 0.1 Hr (6 minutes).

WIRING DIAGRAM



2

- ### WORKING
- Step 1** : Make the connection as per the Wiring Diagram. Then **Switch - ON** the device.
 - Step 2** : It will start displaying all the digits from 0-9, then it will work with **default settings** and start displaying **1st page** (Phase to phase Voltage), **2nd page** (Phase to Neutral Voltages) , **3rd page** (Line Current), **4th page** (Avg Phase to phase Vol, Line Current, Frequency), **5th page** (Avg Phase to neutral Vol, Line Current, Freq.), **6th page** (RPM), **7th page** (Engine Run Hour) with 6 sec. interval between each page. **Default setting** are : a) PTR Ratio : 1 b) CTR Ratio : 1 c) No. of Poles : 4 d) Scroll : Enable (Auto).
- Customized Settings** : For customized setting go to set mode by pressing **Set key** .

- Step 3** : Select **PT Ratio**, **Ptr** between 0000-5000 with the help of **UP** and **DOWN** Keys as shown in **Fig. (1)**. Press set key again to go to next parameter setting, **CT Ratio** i.e **Cr**: Press set key again to go to next selection.
 - Step 4** : Select **Cr** between 0000-5000 as shown in **Fig. (2)** with the help of **UP** and **DOWN** Keys. **example** : **C.T Ratio:** 5A - 25,000AAC by 5A CT & 1A - 5000AAC by 1A CT (Programmable for any value, 5000 is max. multiplier). **Example :** a) For Current range upto 200A, select **Cr** = 200/5=40 for 15A C.T and 200/1=200 for 1A C.T. b) For Current range upto 5000A or 5,00KA, select **Cr** = 5000/5=1000 for 15A C.T and 5000/1=5000 for 1A C.T.
 - Step 5** : Select no. of **Poles**, **Pol.** : 1 - 15, to calculate **RPM** as shown in **Fig.(3)**. Now press **SET** key again to go to next selection.
 - Step 6** : **SCROLL ENABLE (AUTO) / SCROLL DISABLE (MANUAL) MODE SELECTION** : Press **UP** or **DOWN** KEY to toggle between **ENABLE / DISABLE**. As shown in **Fig.(4)**. Now press **SET** key again to go to next selection.
 - Step 7** : **Run Engine Hour Enable / Disable** : As shown in **Fig. (5)**. Now press **SET** key again to go to next selection.
 - Step 8** : **Select 3 Phase or 1 (Single Phase)** : As shown in **Fig. (6)**. Now press **SET** key again to go to next selection.
 - Step 9** : **Now store/Enter these values with Yes or no** : As shown in **Fig. (7)**. If **yes**, then press **SET** key to come out of the **SET** mode. Now you Enter into the Running mode and again If it is in **Scroll Enable Mode(Auto)** then it will display all pages from **Page1 to Page 7** and Vice -Versa at an interval of 6 seconds between each page and if it is in **Scroll Disable Mode(Manual)** then it will keep on displaying single page and if u want to go to other page then keep on pressing any of the UP/Down key till you reach to the desired page. **1**
- Note** : You can also toggle between **Scroll Enable mode(Auto)** and **Scroll Disable mode (Manual)** while in **Running mode** by pressing **UP** and **DOWN** Keys simultaneously .

3

SET /ENTER Mode Description

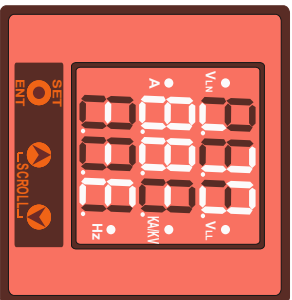


Fig. (1)

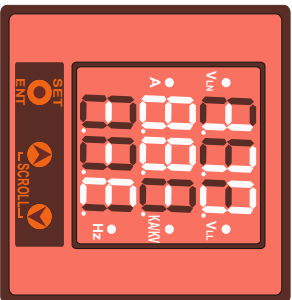


Fig. (2)

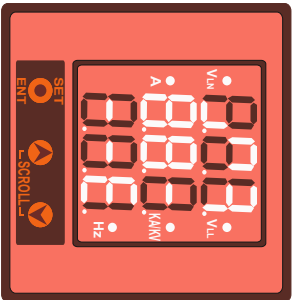


Fig. (3)

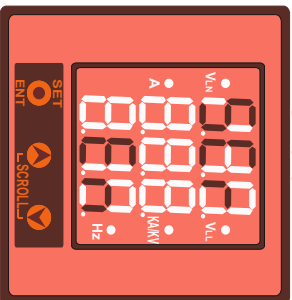


Fig. (4)

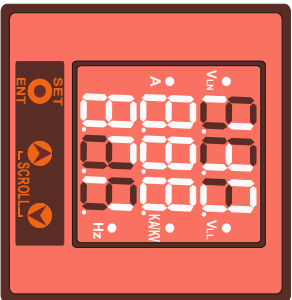


Fig. (5)

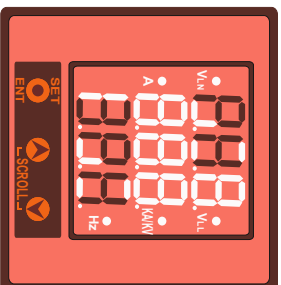


Fig. (6)

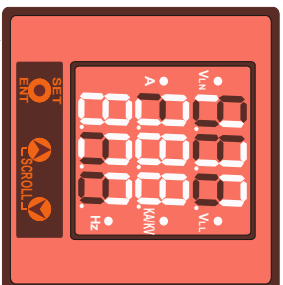
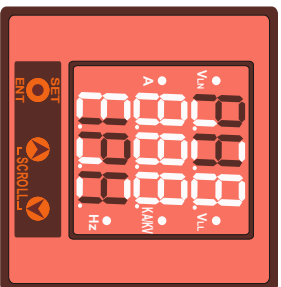
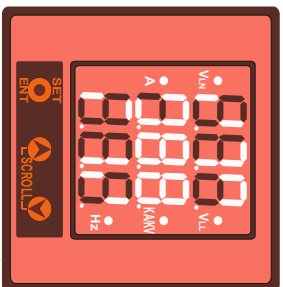
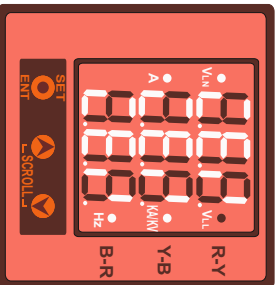


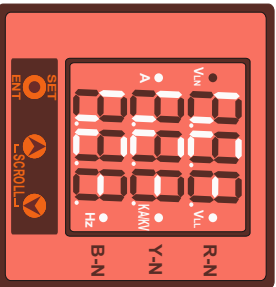
Fig. (7)



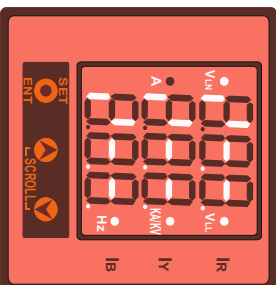
Page wise Description



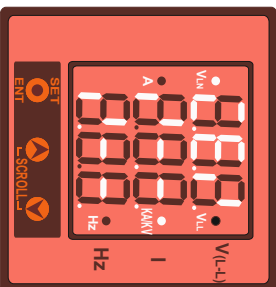
Page 1 (Vol. Line-Line)



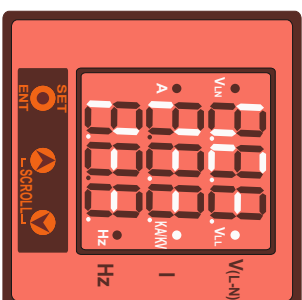
Page 2 (Vol. Line-Neutral)



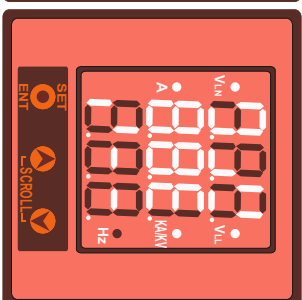
Page 3 (Line Current)



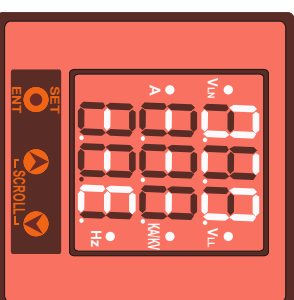
Page 4 (Avg. Line-Line)



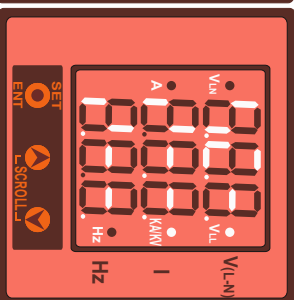
Page 5 (Avg. Line-Neutral)



Page 6 (RPM)



Page 7 (Run Hour)



Page 8 (For 10 2Wire System)

Note : For 3Ø 4Wire System : Page 1 to 7 get displayed in Scroll Enable(Auto) or Scroll Disable (Manual) Mode.

For 1Ø 2Wire System : Page 6 to 8 get displayed in Scroll Enable(Auto) or Scroll Disable (Manual) Mode.

Further, for any queries contact :

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