

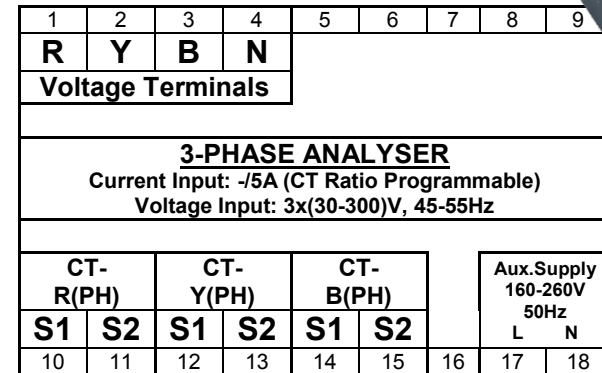


## THREE PHASE ANALYZER

### Technical Specification & User Manual



<b>Model</b>	<b>TMCB-029</b>	
<b>Display Parameters &amp; Range</b>	<b>Parameters</b>	<b>Range</b>
	Volt: VRY, VYB, VBR	50V – 520V
	VRN, VYN, VBN	30V – 300V
	Current: IR, IY, IB, Avg	5A OR 10% - 120% of CTR
	Frequency	45Hz – 55Hz
	P.F.: R, Y, B, Avg	0 to 1 (Lag & Lead)
	kW: R, Y, B, Σ	Up to 9999kW
	kVA: R, Y, B, Σ	Up to 9999kVA
	kVAr: R, Y, B, Σ	Up to 9999kVAr
	Energy(Σ): kWh, kVAh, kVArh	Up to 999999.99
Run Hour	Up to 999999.59	
ON Hour	Up to 999999.59	
<b>Features</b>	<ul style="list-style-type: none"> <li>• True RMS Measurement</li> <li>• Three Line Display for above parameters</li> <li>• 4 Digits in each display line for better resolution</li> <li>• CT Ratio Programming (Range: 5/5 to 9000/5)</li> <li>• Auto scrolling &amp; Manual mode selectable</li> <li>• Auto decimal shifting for current (from 0.01 to 1)</li> <li>• Bright Seven segment LED display for better readability</li> </ul>	
<b>Accuracy</b>	1.0% for all the parameters (0.5% optional on request)	
<b>Display</b>	Three Line Seven Segment display, Size 0.56"	
<b>CT Selection</b>	Programmable through KeyPad	
<b>Connection</b>	3-phase, 4 wire	
<b>Aux. Supply</b>	160V – 260Vac, 50Hz	
<b>Dimension</b>	96mm(H) x 96mm(W) x 75mm(D)	

### Connection Diagram:






### Operation Manual:

1. Press  $\text{A/M}$  key to select *Manual Mode* or *Auto Mode*. *Auto* LED indicates *Auto Mode*.
2. In *Auto Mode*, following pages are displayed sequentially for 20 sec.
  - a. VRN, VYN, VBN
  - b. VRY, VYB, VBR
  - c. IR, IY, IB
  - d. PF-R, PF-Y, PF-B
  - e. VAVG, IAVG, FREQAVG
  - f. KW- R, KVA-R, KVAr –R
  - g. KW- Y, KVA-Y, KVAr –Y
  - h. KW- B, KVA-B, KVAr –B
  - i. ΣKW, ΣKVA, ΣKVAr
  - j. ΣKW, ΣKVA, ΣP.F.
  - k. KWh(Σ)
  - l. KVAh(Σ)
  - m. KVArh(Σ)
  - n. RUN HOUR
  - o. ON HOUR

3. In *Manual Mode*, repeatedly press  key till the required page is displayed.
4. To enter programming mode, press  key for 10 seconds.
5. In Programming mode, the parameter name is displayed in first line and its value is displayed in second line.

### **CT Ratio Programming**

6. The first line show **CTR** i.e. CT Primary Current. Second line displays the current programmed value. The default value of CT Ratio is **100**. Use  key to increment CTR value and  key to decrement CTR value. Press  key for 10 seconds to save the new CT ratio & exit to normal mode.



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