

# Techno Meters & Electronics

## Three Phase VAF



### Technical Specification:






<b>Model</b>	<b>TMCB-021</b>								
<b>Display Parameters &amp; Range</b>	<table border="0"> <tr> <td style="text-align: center;"><u>Parameters</u></td> <td style="text-align: center;"><u>Range</u></td> </tr> <tr> <td>Volt: VRY, VYB, VBR VRN, VYN, VBN</td> <td>45V – 520V 25V – 300V</td> </tr> <tr> <td>Current: IR, IY, IB</td> <td>10% - 120% of CTR</td> </tr> <tr> <td>Frequency RPM Run Hour</td> <td>45Hz – 55Hz</td> </tr> </table>	<u>Parameters</u>	<u>Range</u>	Volt: VRY, VYB, VBR VRN, VYN, VBN	45V – 520V 25V – 300V	Current: IR, IY, IB	10% - 120% of CTR	Frequency RPM Run Hour	45Hz – 55Hz
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Volt: VRY, VYB, VBR VRN, VYN, VBN	45V – 520V 25V – 300V								
Current: IR, IY, IB	10% - 120% of CTR								
Frequency RPM Run Hour	45Hz – 55Hz								
<b>Features</b>	<ul style="list-style-type: none"> <li>• True RMS Measurement</li> <li>• Three Line Display for V, I, F simultaneously</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 0.01A to 1A)</li> <li>• Bright Seven segment LED display for better readability</li> </ul>								
<b>Accuracy</b>	Class 1.0								
<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 & 3-phase, 3wire (on request)								
<b>Aux. Supply</b>	170V – 270Vac, 50Hz								
<b>Dimension</b>	96mm(H) x 96mm(W) x 75mm(D)								
<b>Weight</b>									

### Connection Diagram:

1	2	3	4	5	6	7	8
			<b>N</b>	<b>R</b>	<b>Y</b>	<b>B</b>	
			INPUT VOLTAGE (AC)				
CT- B(PH)		CT- Y(PH)		CT- R(PH)		Aux. Supply 170-260V 50Hz	
<b>S1</b>	<b>S2</b>	<b>S1</b>	<b>S2</b>	<b>S1</b>	<b>S2</b>		
9	10	11	12	13	14	15	16

### Operation Manual:

1. Press  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. VRN, IR, FREQR
  - d. VYN, IY, FREQY
  - e. VBN, IB, FREQB
  - f. VAVG, IAVG, FREQAVG
  - g. RPM, FREQ
  - h. RUN HOUR
3. In *Manual Mode*, repeatedly press  key till the required mode is displayed.

4. To check the value of CT ratio programmed in the meter, press  key. The meter will display the parameter name **C t r** in the 1<sup>st</sup> display line and its value in the 2<sup>nd</sup> display line. The factory setting value for CTR is **0 1 0 0** (i.e. 100/5)
5. To change the CT ratio, continuously press  key for 10 seconds. The CT ratio value displayed in 2<sup>nd</sup> line starts blinking. Use  and  key to increase or decrease the CT ratio. Press  key for 10 seconds to save the new CT ratio & exit to normal mode.