

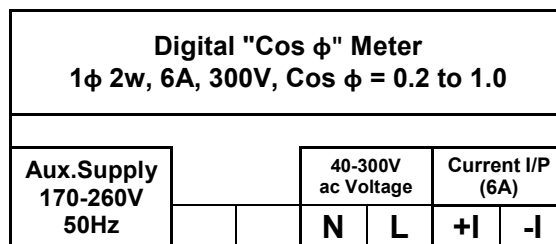
# Techno Meters & Electronics

## Single Phase Analyser

### Technical Specification






<b>Model</b>	<b>TMCB-014</b>														
<b>Display Parameters &amp; Range</b>	<table border="1"> <thead> <tr> <th>Parameters</th> <th>Range</th> </tr> </thead> <tbody> <tr> <td>• Voltage</td> <td>40V – 300Vac</td> </tr> <tr> <td>• Current</td> <td>0.25A to 6A (Direct) (10% - 120% of CTR)</td> </tr> <tr> <td>• Frequency</td> <td>45Hz – 65Hz</td> </tr> <tr> <td>• Power Factor</td> <td>0.2 Lag – Unity – 0.2 Lead</td> </tr> <tr> <td>• Wattage</td> <td>As per above V &amp; I range</td> </tr> <tr> <td>• VA</td> <td>As per above V &amp; I range</td> </tr> </tbody> </table>	Parameters	Range	• Voltage	40V – 300Vac	• Current	0.25A to 6A (Direct) (10% - 120% of CTR)	• Frequency	45Hz – 65Hz	• Power Factor	0.2 Lag – Unity – 0.2 Lead	• Wattage	As per above V & I range	• VA	As per above V & I range
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<b>Features</b>	<ul style="list-style-type: none"> <li>• True RMS Measurement</li> <li>• One Line 4 digits Display for above parameters</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 9999)</li> <li>• Bright Seven segment LED display for better readability</li> <li>• RS485 communication (Optional)</li> </ul>														
<b>Accuracy</b>	Class 1.0 / Class 0.5														
<b>Display</b>	One Line Seven Segment display, Size 0.56"														
<b>CT Selection</b>	Programmable through KeyPad														
<b>Connection</b>	1-phase, 2 wire														
<b>Aux. Supply</b>	170V – 270Vac, 50Hz														
<b>Dimension</b>	95mm(H) x 95mm(W) x 84mm(D)														

### Wiring Diagram:



### Operation Manual:

1. Press  $\text{\textcircled{A/M}}$  key to select *Manual Mode* or *Auto Mode*. *Auto* LED indicates *Auto Mode*.
2. In *Auto Mode*, Voltage, Current and Frequency is displayed sequentially for 20 sec.
3. In *Manual Mode*, repeatedly press  $\text{\textcircled{1}}$  key till the required mode is displayed.

4. To check the value of CT ratio programmed in the meter, press  key for 10 seconds. The meter will display its programmed value. 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 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.