



## Technical Specification SINGLE PHASE ANALYSER

<b>Model</b>	<b>TMCB-014 M</b>														
<b>Display Parameters &amp; Range</b>	<table border="1" style="width: 100%;"> <thead> <tr> <th style="text-align: left;"><u>Parameters</u></th> <th style="text-align: left;"><u>Range</u></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>	<u>Parameters</u>	<u>Range</u>	• 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:

<b>Digital "Cos φ" Meter</b>						
<b>1φ 2w, 6A, 300V, Cos φ = 0.2 to 1.0</b>						
<b>Aux. Supply</b> 170-260V 50Hz			<b>40-300V</b> ac Voltage		<b>Current I/P</b> (6A)	
			<b>N</b>	<b>L</b>	<b>+I</b>	<b>-I</b>

### Operation Manual:

1. Press **(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 **(↑)** key till the required mode is displayed.

4. To check the value of CT ratio programmed in the meter, press **Prog** 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 **Prog** key for 10 seconds. The CT ratio value starts blinking. Use **↑** and **↓** key to increase or decrease the CT ratio. Press **Prog** key for 10 seconds to save the new CT ratio & exit to normal mode.



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