The XPERT-LITE from Trinity is an easy-to-use, cost effective electrical power meter that offers all the basic measurement capabilities required to monitor an electrical installation. In addition to measuring the instantaneous parameters, it also measures accurately all three energies, and also demand, thus helping to measure and control energy cost. It also provides RS485 port supporting MODBUS RTU protocol, two relay outputs for Alarm/Trip with led and display indication, THD measurements for each Volts and Amps, KWh led output for 1000 impulses/KWh.

Over the basic metering, it optionally provides, dual source metering and Import/Export functionality.

The relays are site programmable for parameter of action, and the value on which to operate.

The CT primary and secondary, PT ratio and installation type are site selectable, thus making it possible to use the meter in all types of three phase installations.
## Technical Specifications

<table>
<thead>
<tr>
<th>Type</th>
<th>Name</th>
<th>Parameter</th>
</tr>
</thead>
<tbody>
<tr>
<td>INPUT</td>
<td>Supply</td>
<td>Three Phases and Neutral of a 3P4W system / Three Phases of a 3P3W system</td>
</tr>
<tr>
<td>Voltage</td>
<td>Direct Voltage Input : Up to 500V L-L, Up to 300V L-N</td>
<td>PT Ratio : Site Selectable</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Burden : 0.5VA</td>
</tr>
<tr>
<td>Current</td>
<td>Secondary Current Input: 5A or 1A (Site Selectable)</td>
<td>CT Ratio : Site Selectable</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Range of Reading : 5 – 5000A</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Burden : &lt; 1.0VA</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Overload : 5A CT = 6A RMS Continuous</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1A CT = 1.2A RMS Continuous</td>
</tr>
<tr>
<td>Power Supply</td>
<td>Auxiliary Supply: 80 - 270 VAC, 50-60 Hz.</td>
<td></td>
</tr>
<tr>
<td>OUTPUT</td>
<td>Relay</td>
<td>Two. Individually Field Programmable.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Switching Voltage : Max. 250 VAC</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Switching Power : Max. 1000W</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Expected Mechanical Life: &gt;10 x 10^6 switching operations.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Expected Electrical Life : &gt;4 x 10^6 switching operations.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>¢ (Load = 200VA, Cos φ = 0.5)</td>
</tr>
<tr>
<td>MEASUREMENT</td>
<td>True RMS Basic Parameters</td>
<td>Voltage (Volts L-N &amp; L-L) :</td>
</tr>
<tr>
<td></td>
<td></td>
<td>VL-N - Accuracy : 0.5% of Reading</td>
</tr>
<tr>
<td></td>
<td></td>
<td>VL-L - Accuracy : 1.0% of Reading</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Current (Amps IR, IY, IB) : Accuracy : 0.25% of Reading</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Line Frequency : 45 to 65 Hz, Accuracy: 0.3% of Reading</td>
</tr>
<tr>
<td></td>
<td>Power</td>
<td>Active Power (P) : Accuracy: 1% of Reading (For IPF&gt;0.5)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Reactive Power (Q) : Accuracy: 1.5% of Reading (Between 0.5 Lag to 0.8 Lead)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Apparent Power (S) : Accuracy: 1% of Reading</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Power Factor : For Individual phases and System Accuracy: 1.0% of reading (IPF&gt;0.5)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Range of Reading: 0.05 to 1.00 Lag/Lead</td>
</tr>
<tr>
<td></td>
<td>Energy</td>
<td>Total Active Energy (KWh) : Range of Reading: 0 to 9999999.9</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Accuracy: 1.0S as per IS13779</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Total Apparent Energy (KVAh) : Range of Reading: 0 to 9999999.9</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Accuracy: 1.0% of Reading</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Total Reactive Energy (KVARh) : Range of Reading: 0 to 9999999.9</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Accuracy: 1.5% of Reading</td>
</tr>
<tr>
<td></td>
<td>Power Quality</td>
<td>THD for each Voltage</td>
</tr>
<tr>
<td></td>
<td>Demand</td>
<td>THD for each Current</td>
</tr>
<tr>
<td></td>
<td>KV/ KWA Demand</td>
<td>Site Selectable. Demand Interval 15/30 Min. Also site selectable</td>
</tr>
<tr>
<td></td>
<td>Max. Demand</td>
<td>Max. Value reached only. No time &amp; date stamp</td>
</tr>
<tr>
<td>MISCELLANEOUS</td>
<td>Dimensions</td>
<td>Bezal : 96 X 96 mm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Panel Cutout : 92 X 92 mm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Depth of installation : 55 mm</td>
</tr>
<tr>
<td></td>
<td>Display</td>
<td>128 X 64 graphical backlit LCD</td>
</tr>
<tr>
<td></td>
<td>Operating temp</td>
<td>10°C to 50°C</td>
</tr>
<tr>
<td></td>
<td>Weight</td>
<td>0.35 Kgs (Approx.)</td>
</tr>
<tr>
<td></td>
<td>Operating Current Range</td>
<td>0.4% to 120% of CT primary</td>
</tr>
<tr>
<td></td>
<td>Calibration LED</td>
<td>Red Colour. 1000 impulses/KWh</td>
</tr>
<tr>
<td></td>
<td>Comm.</td>
<td>RS485 Modbus -RTU protocol</td>
</tr>
</tbody>
</table>

*Specifications are subject to change without notice due to continuous improvement.*