DESCRIPTION
It measures energy (Watt-hour) consumed by SINGLE PHASE / THREE PHASE, balanced / unbalanced load in power industry. The meter comprises of microcontroller with DIP switch provision to accommodate different CT Ratios.

FEATURES
- True RMS measurement.
- Current direction reversal indication.
- Tamper-proof.
- No need of external power supply (Self – Powered).
- Indication of energy by six digit electro – mechanical, non-resettable, impulse counter.
- Isolated solid state pulse output.

OPTIONAL FEATURES
- MODBUS RTU with / without software package.

ELECTRICAL SPECIFICATIONS
- TYPE : 1 Ph / 3 Ph - 2 EL - 3 W / 3 Ph - 3 El - 4 W
- INPUT VOLTAGE : 63.5V / 110V / 240V / 415V AC, ±20%
- INPUT CURRENT : 1A / 5A (5% to 120%)
- OPERATING FREQUENCY : 50Hz ±5Hz.
- OPERATING POWER FACTOR : 0.5 (Lag) – Unity – 0.8(Lead)
- ACCURACY : ±1.0% of reading
- VA BURDEN : Voltage : 8 VA / Phase
- Current : 0.5 VA / Phase
- DISPLAY TYPE : 6 Digit Impulse Counter, Non-resettable
- PULSE OUTPUT : 100 ± 10msec. (ON period)
- CONTACT RATING : 24V DC, 100mA DC
- INSULATION RESISTANCE : Greater than 20 MΩ at 500V DC
- DIELECTRIC TEST : 2kV RMS for 1 minute
- OPERATING TEMP. : 0°C to 55°C
- STORAGE TEMP. : -10°C to 70°C
- HUMIDITY : Upto 95% RH
- CONFORMS TO : I.S. 13779 / I.E.C :1036
Static Watthour Meter with Electro-Mechanical Display

MECHANICAL SPECIFICATIONS

<table>
<thead>
<tr>
<th>Data Sheet</th>
<th>Model</th>
<th>System</th>
<th>Acc. Class</th>
<th>Size (mm)</th>
<th>Weight (@ gms)</th>
<th>Panel Cutout (mm)</th>
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</thead>
<tbody>
<tr>
<td>KWIM</td>
<td>KWHM 30132</td>
<td>Single Phase</td>
<td>0.5</td>
<td>90 x 90 x 115</td>
<td>450</td>
<td>92 x 92 +0.8</td>
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<tr>
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<td>KWHM 30142</td>
<td>Single Phase</td>
<td>1.0</td>
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<tr>
<td></td>
<td>KWHM 31332</td>
<td>3Ph – 2EL – 3W</td>
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<tr>
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<tr>
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</table>

* 72 x 72 mm on request

TERMINAL CONNECTIONS

<table>
<thead>
<tr>
<th>TYPE</th>
<th>VOLTAGE</th>
<th>CURRENT</th>
<th>Pulse Output</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single Phase</td>
<td>L1, N</td>
<td>1S, 1L</td>
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</tr>
<tr>
<td>Three Phase, Two Element, Three Wire</td>
<td>L1, L2, L3</td>
<td>1S, 1L</td>
<td>3S, 3L</td>
</tr>
<tr>
<td>Three Phase, Three Element, Four Wire</td>
<td>L1, L2, L3, N</td>
<td>1S, 1L</td>
<td>2S, 2L 3S, 3L</td>
</tr>
</tbody>
</table>

TYPICAL WIRING DIAGRAM

For MODBUS/RTU Protocol type.

For Self Powered type.

Supply Side

Remote Unit (DCS / PLC / Data Logger)

Load Side

Without CT/PT

With CT/PT

Ordering information

1) Model  2) Input Voltage  3) Input Current  4) PTR (if any)  5) CTR (if any)