Wi-LEM COMPONENTS

**Energy Meter Node (EMN):**
Single or three phase energy meter with embedded wireless data transmission module or as open OEM version

**Measurement ranges:**
- Current from 20 to 2000 A
- Voltage from 90 to 500 VAC

**Measurement values:**

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<thead>
<tr>
<th></th>
<th>Interval Based Values (5 to 30 minutes Configurable Reading Intervals)</th>
<th>Cumulated Values</th>
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<tr>
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<td>L1</td>
<td>L2</td>
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<tr>
<td>Current (A)</td>
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<tr>
<td>Voltage (V)</td>
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<tr>
<td>Active Energy (kWh)</td>
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<td>Reactive Energy (kVarh)</td>
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<td>Apparent Energy (kVA)</td>
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<td>Frequency</td>
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**Wi-Pulse:**
A transducer that counts and transmits pulses coming from water or gas* meters with pulse output

**Wi-Zone:**
Temperature and Humidity transducer

**Wi-Temp:**
Two inputs thermistors based temperature sensors

**Mesh Gate:**
A gateway managing the mesh network (up to 200 Nodes). It provides data through serial interface to a PC or RTU (Data logger with integration in existing platforms)

**Mesh Node:**
Repeater linking various Nodes. They enable wireless communication throughout a large installation
Applications:

- Establish the breakdown of energy use (where does it all go?)
- Allocate energy wastes to users
- Determine efficiency of equipment
- Audit before & after energy use for retrofit projects
- Manage the load profile (peak demand)
- Maintenance and Enterprise Asset Management

* an additional intrinsic safety barrier module is needed