**Current Sensors**

**STEP 1**

**Opening Current Sensor**

Place thumb or finger under latch and lift upward.

**STEP 2**

**Installing L1, L2 and L3 Current Sensors**

From the three-phase equipment/motor terminals attach:
- L1 sensor to line 1
- L2 sensor to line 2
- L3 sensor to line 3

Make sure the arrow is facing the primary current direction.

**WARNING: Voltage hazard**

Before making electrical connections always disconnect and lock out the main power sources to prevent injury from unexpected energization or start-up. Electrical connections should be made only by qualified personnel.

**WARNING: Improper installation, operation, or servicing may result in equipment damage or personal injury**

This equipment should be installed, adjusted, and serviced by qualified electrical technicians. All wiring and disconnects should be installed by a qualified electrical technician in accordance with electrical codes in your region.
Voltage Connections

**STEP 3**

**Alligator Clip Connection**
There are 3 alligator clips for voltage tapping from the three-phase equipment/motor terminals.

![Alligator Clips](image)

**CAUTION**
Failure to connect the voltage clips in the proper sequence could cause equipment damage or failure.

<table>
<thead>
<tr>
<th>Voltage Alligator Clips</th>
<th>Phase</th>
</tr>
</thead>
<tbody>
<tr>
<td>BLACK</td>
<td>L1/BLA</td>
</tr>
<tr>
<td>RED</td>
<td>L2/RED</td>
</tr>
<tr>
<td>BLUE</td>
<td>L3/BLU</td>
</tr>
</tbody>
</table>

**Hard Wire Connection**
If you are permanently installing the Power Analyzer voltage clips or have space restrictions you may choose to hard wire the supplied leads rather than use the alligator-style voltage clips.

![Hard Wire Connection](image)

<table>
<thead>
<tr>
<th>Voltage Leads</th>
<th>Phase</th>
</tr>
</thead>
<tbody>
<tr>
<td>BLACK</td>
<td>L1/BLA</td>
</tr>
<tr>
<td>RED</td>
<td>L2/RED</td>
</tr>
<tr>
<td>BLUE</td>
<td>L3/BLU</td>
</tr>
</tbody>
</table>

221 E. Thomas Avenue Baltimore, MD 21225 +1-443-457-1165 www.machinesense.com
Input Power Connections

**STEP 4**

**110-270V AC**
Connect the supplied 110-270 Volt AC plug to 110-270 power located on the machine where the Power Analyzer is being installed.

**24V DC**
If using 24V DC supply to power the Power Analyzer wire the red lead to 24V DC and the black lead to 0V DC.

**NOTE:** The 3-core power cable will be connected to the 3-pin brass connector on the rear of the Power Analyzer Unit upon shipment.

AC plug adapter (shown) may be required. Not included.
Neatly route any excess cable in available cable trays. Use wire ties and self-adhesive cable tie mounts to tidy your installation.

Connect a user supplied Ethernet cable to the rear of the Power Analyzer box connecting the other end to the user supplied network with internet access. For WiFi installations please refer to the Wifigurator Network Connection Guide for connection instructions.

Make sure the 3-core power cable is properly connected to the rear of the Power Analyzer and the plug is connected to 110-270V AC power or 24V DC power as selected during installation. Turn the rocker power switch to the 'ON' position. Immediately, the LEDs corresponding to 'Power' will light. After approximately 30 seconds, the 'Connect' and 'Active' lights will turn on. If not, check power connections from the back of the Power Analyzer box to the supplied power.

Download the MachineSense Wifigurator App from the App Store or the Play Store.
Accessories Included

1. 110V AC Power Cable
2. 24V DC Power Cable
3. (3) Voltage Probes (Alligator Clips)
4. (3) Voltage Leads
5. (3) Voltage Connectors
6. (3) 300 Amp Current Sensors or
7. (3) 100 Amp Current Sensors
8. Mounting Bracket

NOTE: Appearance will vary depending on the current sensor option ordered. You will receive (3) current sensors. Upon shipment, the power cable for the current sensors will be connected to the current probe connection located on the rear of the Power Analyzer.

Tools & Accessories Needed

A. Wire Strippers
B. Wire Cutters
C. Flat-Head Screw Driver
D. Phillips-Head Screw Driver
E. Cable Ties
F. Self-Adhesive Cable Tie Mounts
G. Ethernet Cable

OPTIONAL TOOLS*

H. Center Punch
I. Deburring Tool
J. Drill
K. Unibits/Stepped Drill Bits
L. Strain Relief
M. Rubber Grommet

*Optional tools are only required if the current sensors and Power Analyzer are located external to the control panel.

See mounting options on page 4.

221 E. Thomas Avenue Baltimore, MD 21225 +1-443-457-1165 www.machinesense.com
Install the Power Analyzer box into the control cabinet of the machine/component to be monitored. The feet can be used to secure the Power Analyzer to the cabinet or can be replaced with the supplied bracket. See the mounting bracket options on page 4. Be certain to consider the cord/ connection locations before affixing the box.