

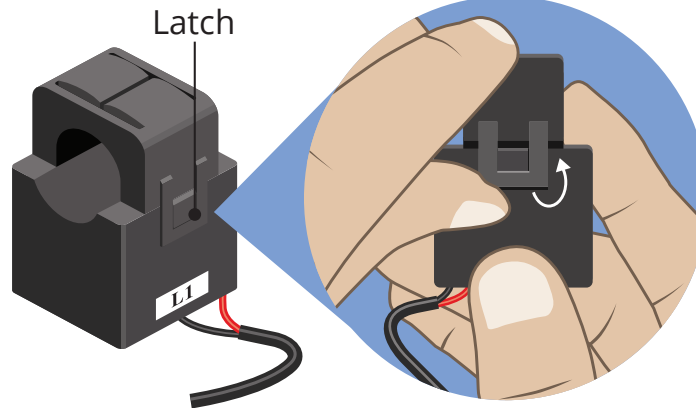
Single-Port Power Analyzer Quick Start Guide

Current Sensors

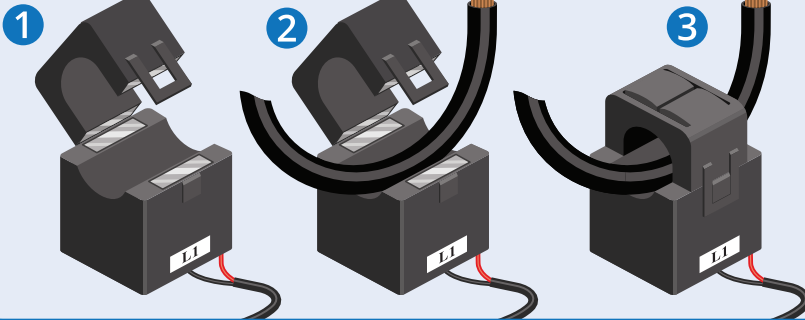
STEP 1

Opening Current Sensor

Place thumb or finger under latch and lift upward.



Process similar for all current sensors.



How To Attach Current Sensor

- 1 Lift latch to open
- 2 Place wire in groove
- 3 Close top and snap latch to lock

STEP 2

Installing L1, L2 and L3 Current Sensors

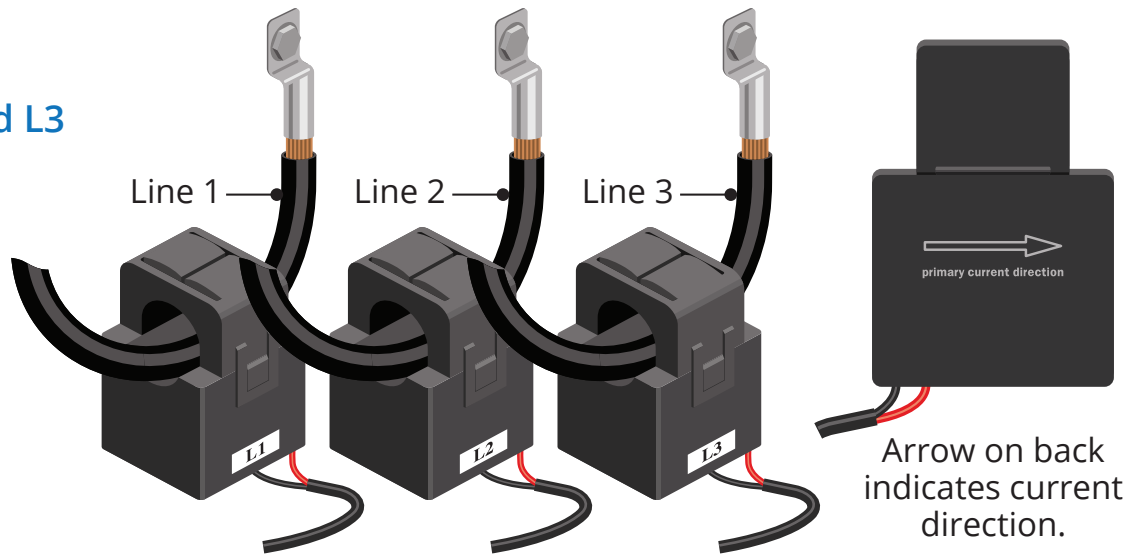
From the three-phase equipment/motor terminals attach:

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.



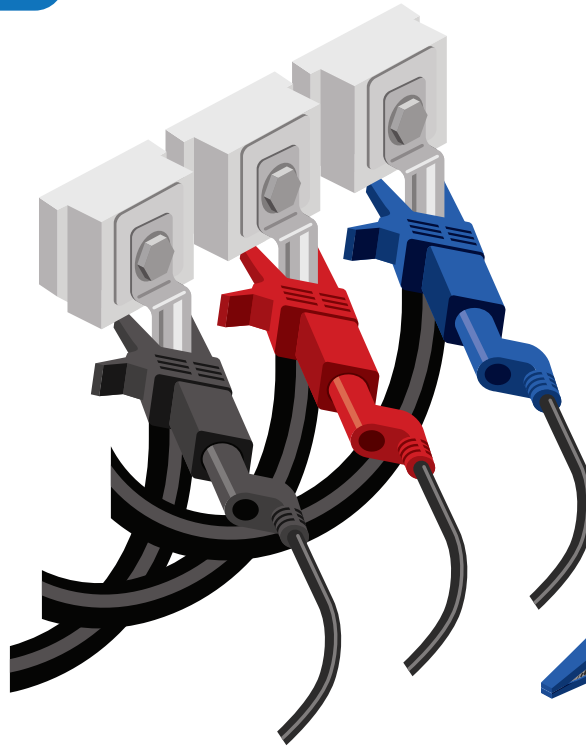
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Voltage Connections

STEP 3

Alligator Clip Connection

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



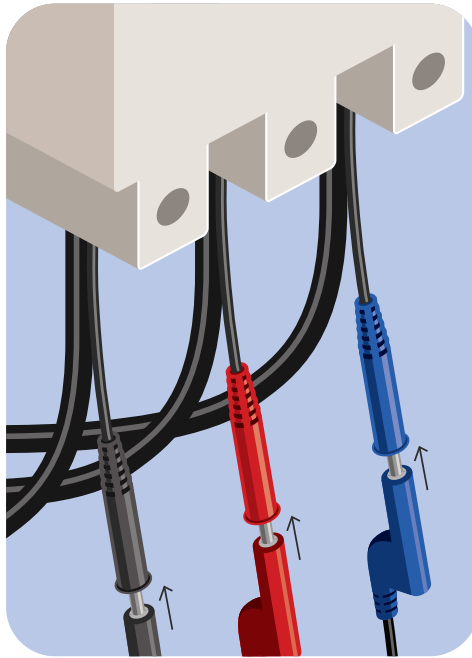
Voltage Alligator Clips	Phase
BLACK	L1/BLA
RED	L2/RED
BLUE	L3/BLU

CAUTION

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

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.



Voltage Leads	Phase
BLACK	L1/BLA
RED	L2/RED
BLUE	L3/BLU



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Input Power Connections

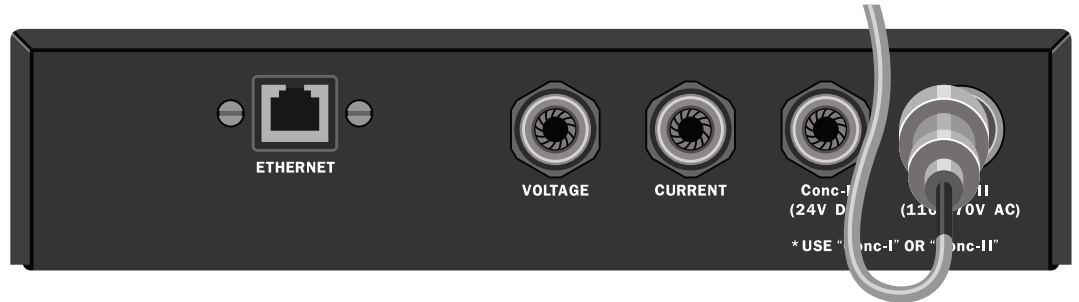
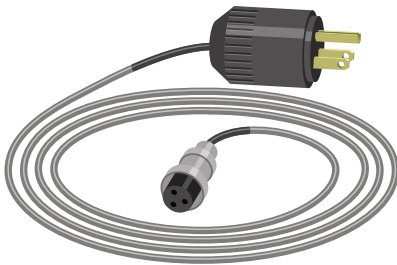
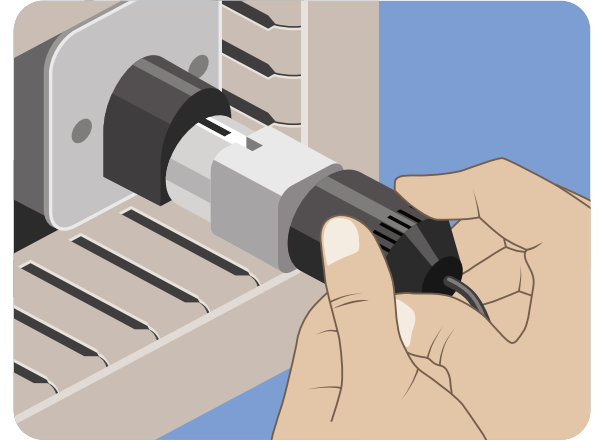
STEP 4

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.

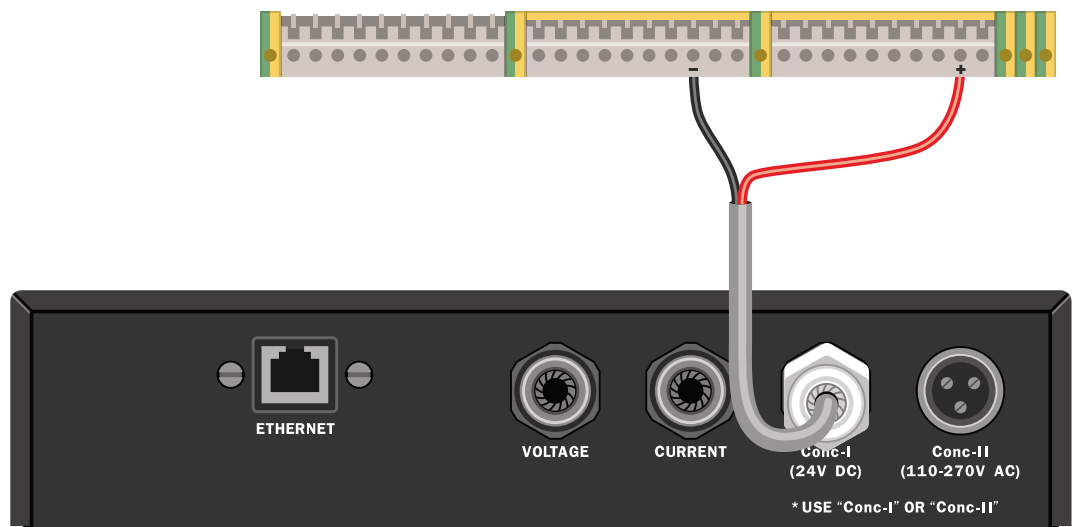
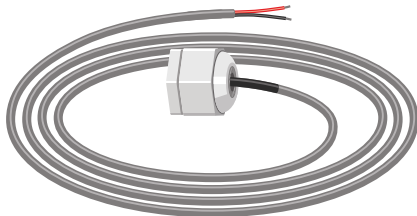
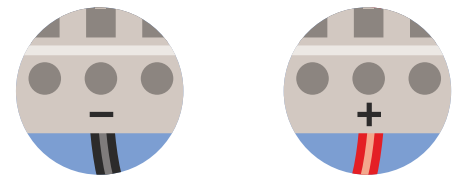
NOTE: The 3-core power cable will be connected to the 3-pin brass connector on the rear of the Power Analyzer Unit upon shipment.

AC plug adapter (shown) may be required. Not included.

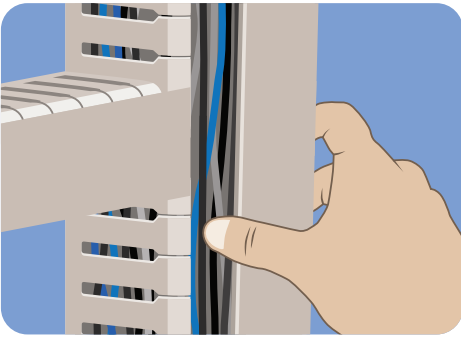


24V DC

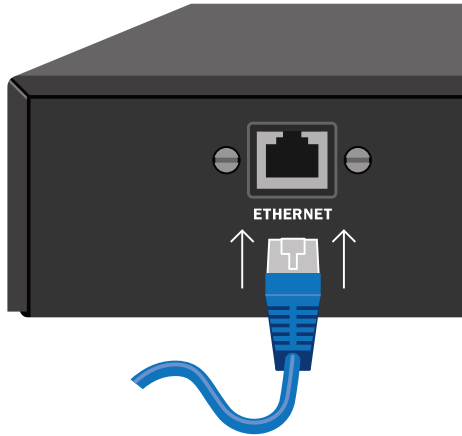
If using 24V DC supply to power the Power Analyzer wire the red lead to 24V DC and the black lead to 0V DC.



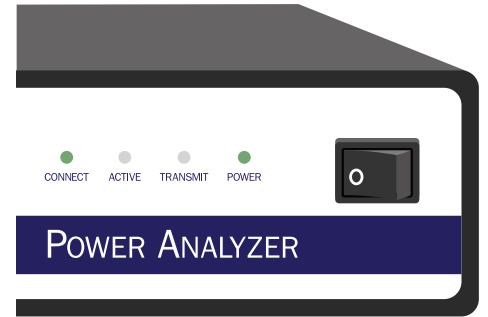
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Neatly route any excess cable in available cable trays. Use wire ties and self-adhesive cable tie mounts to tidy your installation.

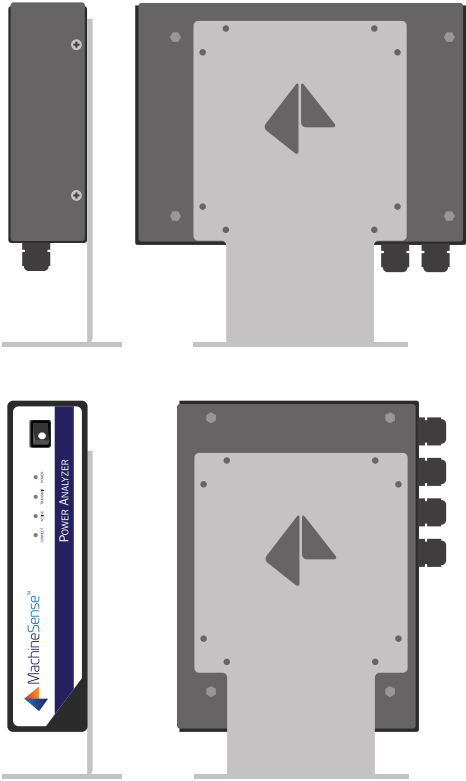


Connect a user supplied Ethernet cable to the rear of the Power Analyzer box connecting the other end to the user supplied network with internet access. For WiFi installations please refer to the Wifigurator Network Connection Guide for connection instructions.



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.

Mounting Bracket Options



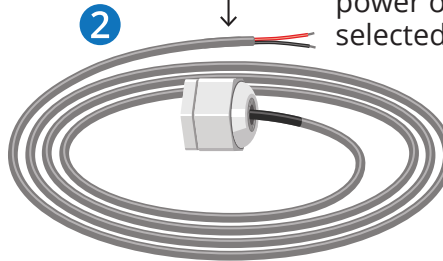
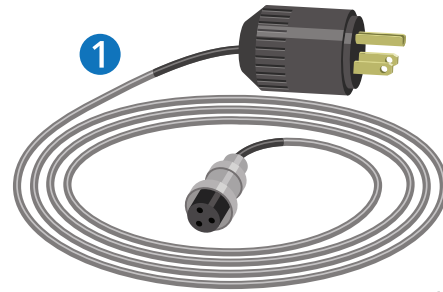
Download the MachineSense Wifigurator App from the App Store or the Play Store.



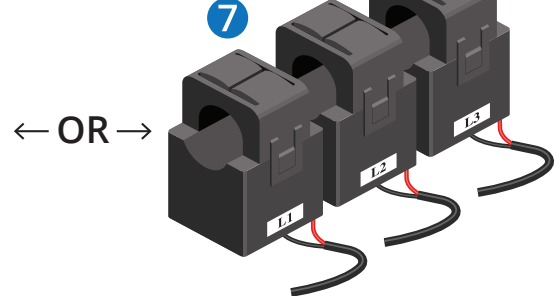
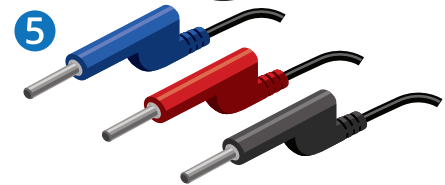
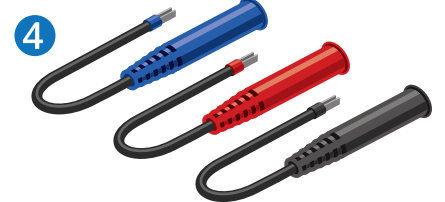
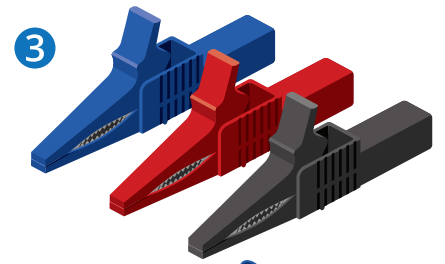
Single-Port Power Analyzer Accessories

Accessories Included

- 1 110V AC Power Cable
or
- 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



↑ OR ↓
Depending on AC or DC power option selected.

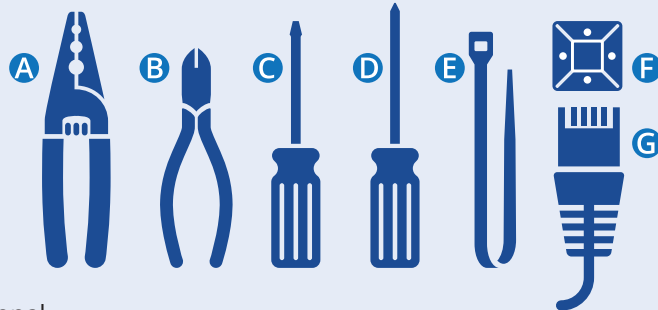


← OR →

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.

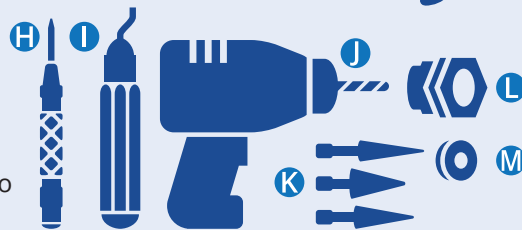
Tools & Accessories Needed

- 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

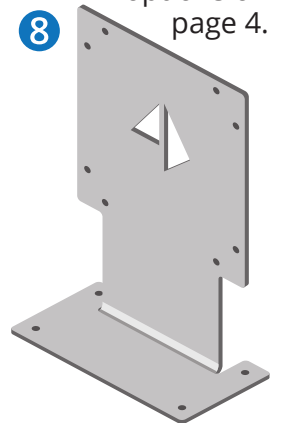


- OPTIONAL TOOLS*
- H Center Punch
 - I Deburring Tool
 - J Drill
 - K Unibits/Stepped Drill Bits
 - L Strain Relief
 - M Rubber Grommet

*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.



Single-Port Power Analyzer Overview

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.



- 1 Connect LED
- 2 Active LED
- 3 Transmit LED
- 4 Power On LED
- 5 Power On/Off Switch
- 6 Ethernet Port
- 7 Voltage Probe
- 8 Current Probe
- 9 24V DC Input
- 10 110-270V AC Input

