# 120/208V Powered Enclosure Kit Setup Guide

This guide describes one method of installing the components in the 120V PEK. Remember that parts may be used in a variety of ways to meet specific installation needs. The PEK comes unassembled.

We recommend test fitting all components in the enclosure to mark hole locations first. Drill holes for conduit, wires, and other external pieces prior to installing components within the enclosure.

For an example line diagram, see last page.
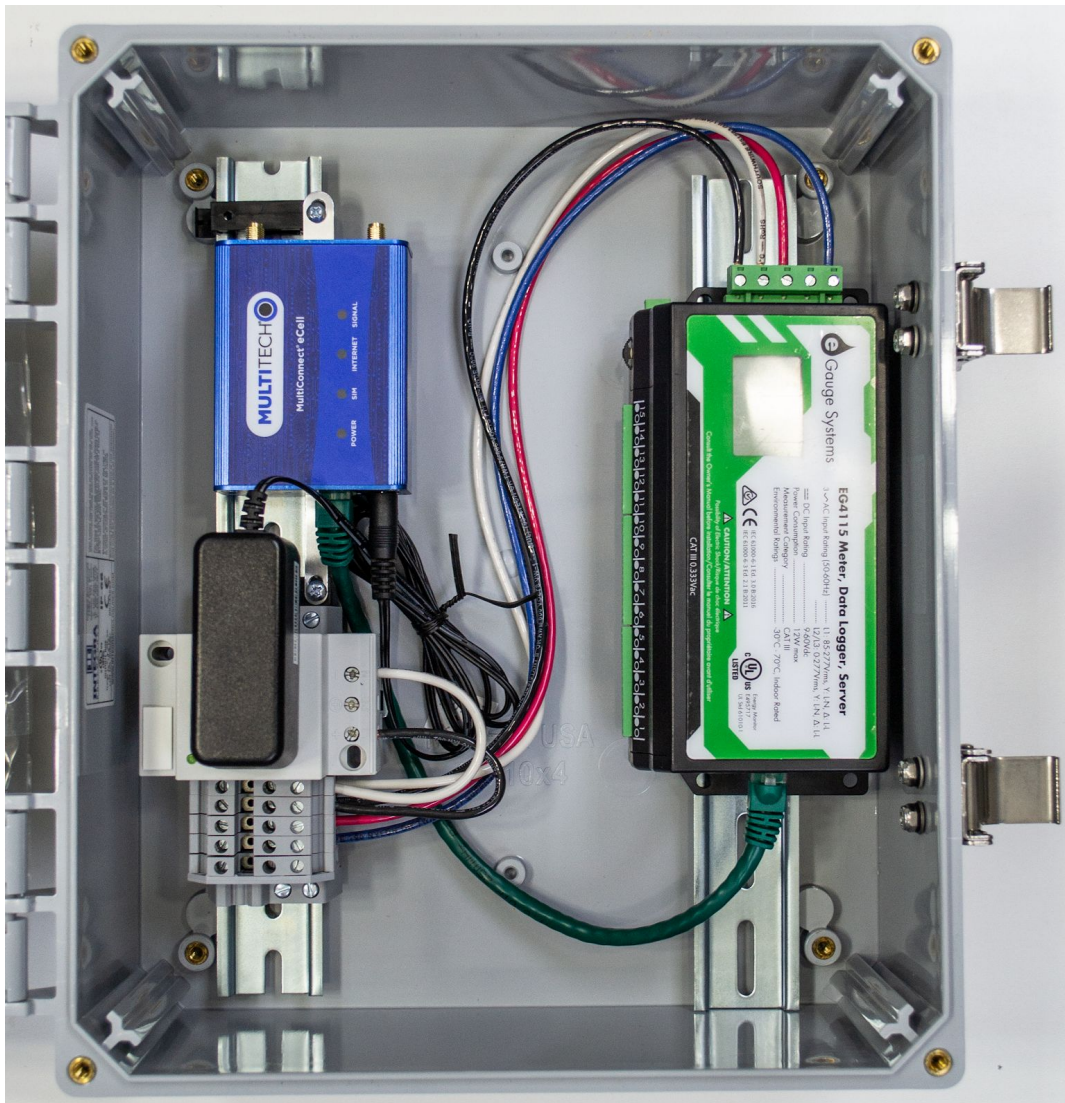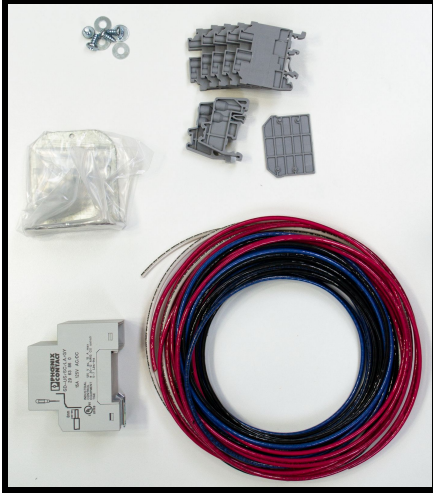
1) Check that you have all the correct parts:

1x	12"x10"x4" polycarbonate enclosure
1x	Phoenix DIN mountable receptacle
1x	Wire set (15' ea black, red, blue, white)
2x	DIN rail lengths
4x	DIN rail mounting screws and washers
1x	Terminal cover plate
5x	Terminal blocks
2x	Terminal endstops
1x	eGauge DIN rail mounting kit
(not included)	Ground wire, if using a 3-prong grounded power adapter; not required for eGauge supplied power adapters

2) The two 13" pieces of DIN rail should already be mounted in the enclosure. Using a screwdriver, check to make sure they are tightly fastened.
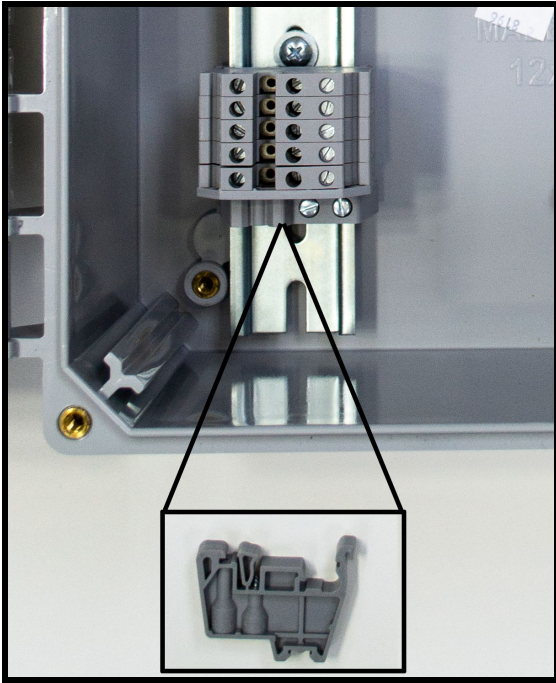
3) Take the 5 gray terminal block pieces and connect them to the DIN rail. Use the gray cover plate to cover one end. Add a terminal endstop to one side of the terminal block. Wait to fully tighten the screws on the endstop as you may need to adjust it later.

4) Connect the Phoenix 120VAC receptacle to the DIN rail, next to the terminal block *without* an end stop.

5) Add a terminal endstop to the side of the Phoenix 120VAC receptacle which is *not* in contact with the terminal blocks.

6) Attach the optional cell router or other equipment using DIN rail clips (eGauge provides DIN rail mounting kit and antenna extensions with the cell modem).
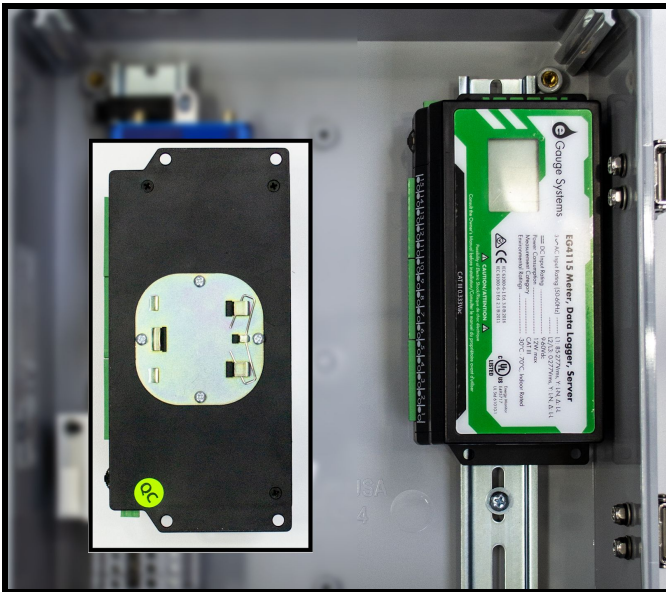
7) Attach the eGauge using the eGauge DIN rail mounting kit. There are many ways to install this kit - the image to the left shows a "flat" mount. The right angle bracket can be used for a vertical installation.


8) Connect the power adapter for the cell router (or other equipment) to the 120VAC receptacle and the Ethernet cable to the eGauge.
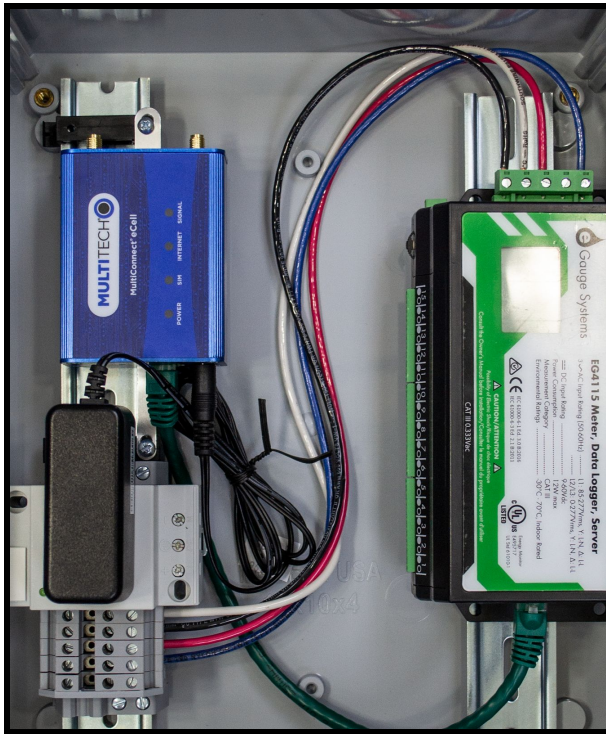
9) Cut lengths (approximately 7" long) from each section of colored wire. Use these to connect the five pin power plug on the eGauge to the terminal blocks. For U.S. 120/208V NEC color coding, the white wire should connect to the "N" terminal, black to "L1", red to "L2", and blue to "L3" (if applicable).
Important: Make sure the service neutral is connected to the N terminal on the power block.
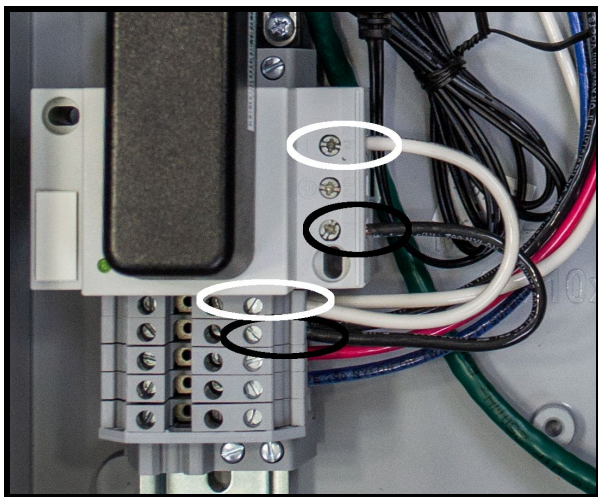
10) Cut lengths (approximately 7" long) from the white and black section of colored wire. Connect these to the Phoenix 120VAC receptacle (black to "L1" or "+", white to "N" or "-" and to the terminal blocks (match the colors to the existing wiring on the terminal block - black to black, white to white). If using a 3-prong grounded power adapter, connect a ground wire from an unused terminal block to the "PE" or "⏚" receptacle connection.
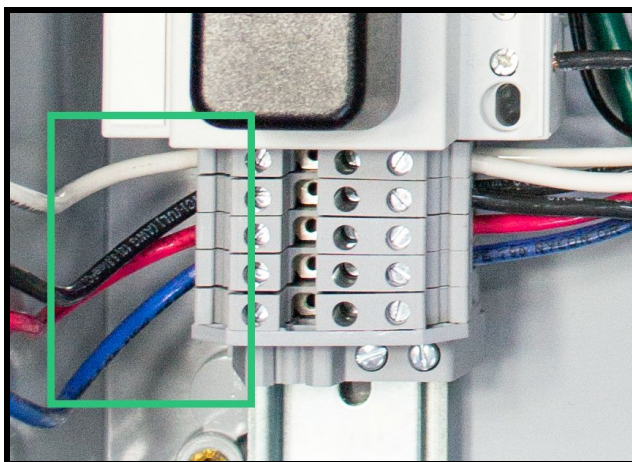
11) Wire the power distribution block to the breakers or fuse block of the distribution panel being measured. If using a grounded receptacle, be sure to connect the ground wire to the correct terminal block.

12) Cellular and WiFi antennas should be connected outside of the enclosure. If installed outdoors, ensure the seals are water-tight.

To External Antenna

EG4115 Meter, Data Logger, Server

MULTITECH
Multiconnect eCell

Ethernet

Antenna

12V DC

L1 (black)

Ground (green if needed)*

Neutral (white)

120/208VAC Distribution Panel

* Ground connection not needed when using eGauge supplied power adapters for supported cellular modems and WiFi bridges.