



GE VERNOVA

# EPM 4600 Meter Enclosure



## Instruction Manual

Manual P/N: 1601-0655-A1

Manual Order Code: GEK-130900



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Part number: 1601-0655-A1 (January 2016)

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## General Safety Precautions

- Failure to observe and follow the instructions provided in the equipment manual(s) could cause irreversible damage to the equipment and could lead to property damage, personal injury and/or death.
- Before attempting to use the equipment, it is important that all danger and caution indicators are reviewed.
- If the equipment is used in a manner not specified by the manufacturer or functions abnormally, proceed with caution. Otherwise, the protection provided by the equipment may be impaired and can result in Impaired operation and injury.
- Caution: Hazardous voltages can cause shock, burns or death.
- Installation/service personnel must be familiar with general device test practices, electrical awareness and safety precautions must be followed.
- Before performing visual inspections, tests, or periodic maintenance on this device or associated circuits, isolate or disconnect all hazardous live circuits and sources of electric power.
- Failure to shut equipment off prior to removing the power connections could expose you to dangerous voltages causing injury or death.
- All recommended equipment that should be grounded and must have a reliable and un-compromised grounding path for safety purposes, protection against electromagnetic interference and proper device operation.
- Equipment grounds should be bonded together and connected to the facility's main ground system for primary power.
- Keep all ground leads as short as possible.
- At all times, equipment ground terminal must be grounded during device operation and service.
- In addition to the safety precautions mentioned all electrical connections made must respect the applicable local jurisdiction electrical code.
- Before working on CTs, they must be short-circuited.
- To be certified for revenue metering, power providers and utility companies must verify that the billing energy meter performs to the stated accuracy. To confirm the meter's performance and calibration, power providers use field test standards to ensure that the unit's energy measurements are correct.
- This product must be padlocked after service or commissioning is completed.
- Only qualified personnel are to operate the device. Such personnel must be thoroughly familiar with all safety cautions and warnings in this manual and with applicable country, regional, utility, and plant safety regulations.

## Safety words and definitions

The following symbols used in this document indicate the following conditions:



Indicates a hazardous situation which, if not avoided, will result in death or serious injury.



Indicates a hazardous situation which, if not avoided, could result in death or serious injury.



Indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.



Indicates practices not related to personal injury.



Indicates general information and practices, including operational information and practices, that are not related to personal injury.

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# EPM 4600 Meter Enclosure

## Chapter 1: Introduction

The EPM 4600 Meter Enclosure expands existing switchgear capability without expensive and time-consuming redesign. It is simple to mount and wire the enclosure next to your switchgear so it is ready to go, with no downtime at all. This is an ideal solution for a retrofit when there is no metering compartment available.

The unit comes standard with a NEMA 1 enclosure and is factory wired with the meter installed. Standard equipment includes voltage fuses, a shorting block for current transformer connections.

The enclosure can be ordered with either the EPM 4600-T three-phase circuit configuration or the EPM 4600-S single-phase circuit configuration, and comes standard with either a 3.5" or 5.7" touch-screen display.

BACnet or LonWorks protocol is available as an add-on to the existing standard Modbus capability. See Chapter 2 for ordering instructions.

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### 1.1 Product Handling

#### CAUTION

**READ AND UNDERSTAND THE INSTRUCTIONS CONTAINED IN THIS DOCUMENT BEFORE ATTEMPTING TO UNPACK, INSTALL, OPERATE, OR MAINTAIN THIS EQUIPMENT.**

Every effort is made to insure that the equipment arrives undamaged and ready to be installed. Packing is designed to protect internal components as well as the enclosure. Do not remove protective packing until you are ready to install the equipment.

When you receive the equipment, you should inspect the shipping container for any obvious signs of rough handling and/or external damage that occurred during transportation. Record any external and internal damage for reporting to the transportation carrier and GE Vernova Multilin. All claims should be as specific as possible and include general order numbers.

You will find a plastic bag of instruction booklets and/or CDs in the shipping container. Store these documents in a safe place.

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## 1.2 Safety Precautions



**All safety codes, safety standards, and/or regulations must be strictly observed in the installation, operation, and maintenance of this device.**

Hazardous voltages that can cause death or severe personal injury are present inside enclosure. Follow proper installation, operation, and maintenance procedures to avoid these voltages.

Completely read and understand the material presented in this document before attempting installation, operation, or application of the equipment. In addition, only qualified persons should be permitted to perform any work associated with the equipment. Any wiring instructions presented in this document must be followed precisely. Failure to do so could cause permanent equipment damage.

All possible contingencies that may arise during installation, operation, or maintenance, and all details and variations of this equipment do not purport to be covered by these instructions. If further information is desired by purchaser regarding a particular installation, operation, or maintenance of particular equipment, contact a GE Vernova Multilin (GE Vernova Grid Solutions) representative.

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## 1.3 Storage

Although it has been well packaged, this equipment should not be stored outdoors. If the equipment is to be stored indoors for any period of time, it should be stored with its protective packaging in place. Refer to the EPM 4600 Instruction Manual, on the enclosed CD, for the meter's storage requirements.

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## 1.4 Compliance

UL508A (Industrial control panel), UL/cUL Listed File number e358101.

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## 1.5 Specifications

### ENVIRONMENTAL RATING WITH DISPLAY DIS3500/DIS5700

Storage:.....(-20 to +60)° C/(-4 to +140)°

F Operating:.....(0 to +50)° C/(+32 to +122)°

F

Humidity: .....to 85% RH Non-condensing; Wet bulb temperature 39°C/102.2° F  
or less

Enclosure rating ..... NEMA 1 (Indoor Use)

### MECHANICAL PARAMETERS

Dimensions..... 7.31" x 20.32" x 20.39" (L x W x H)

185.67 mm x 516.19 mm x 517.91 mm (L x W x

H) Weight ..... 48.5 lb/ 22 kg



# EPM 4600 Meter Enclosure

## Chapter 2: Ordering Information

### 2.1 Order Codes

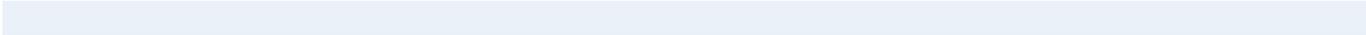
The order codes for the EPM 4600 meter with enclosure are indicated below.

Refer to the EPM 4600 product manuals for full specifications.

**NOTICE**

Table 2–1: EPM 4600 Meter with Enclosure Order Codes

	PL4600	-	*	-	*	-	*	-	*	-	*	-	*	-	*	Description
Base Unit	PL4600															
Enclosure Option			ENC350													Meter Enclosure with 3.5" display
			ENC570													Meter Enclosure with 5.7" display
Feed Configuration					T											Three Phase
					S											Single Phase
Frequency							5									50 Hz AC frequency system
							6									60 Hz AC frequency system
Current Inputs									10A							Up to 10A Current
									02A							Up to 2A Current
Software											A					Transducer
											B					Basic Logging-2MB Memory
											C					Advanced Logging-32MB Memory
Communications													S			Serial (RS485) Modbus
													W			WiFi, RJ45 100BaseT Ethernet
Protocol Add-on														PBA		Serial BACnet protocol converter. Requires S communications option.
														PLW		Serial LonWorks protocol converter. Requires S communications option.
														XXX		None





# EPM 4600 Meter Enclosure

## Chapter 3: Installation

### WARNING

**All safety codes, safety standards, and/or regulations shall be strictly observed installation, operation, and maintenance of this device. This device shall be installed in an un-energized condition and as per the National Electric Code.**

Choose a mounting location that offers a flat, rigid mounting surface capable of supporting the weight of the equipment. The unit weighs 48.5 lbs (22 kg) maximum. Mount the equipment in a suitable environment. These enclosures are designed for NEMA 1 environments and are manufactured of painted steel.

Check to make certain that there are no pipes, wires, or other mounting hazards in the immediate mounting area that could create a problem. Also make sure you have enough clearance around the enclosure to run wiring to it safely. GE Vernova Multilin recommends at least 2 feet of clearance around the enclosure.

Carefully remove all packing material from the unit. Even though an equipment inspection was made when the equipment was received, make another careful inspection of the enclosure and the devices inside as packing material is removed. Be especially alert for distorted metal, loose wires, or damaged components. This is important because wiring can come loose in shipping and could cause a short circuit or voltage to be on the wrong terminal. Please inspect to make sure all the wiring is in the proper place.

### WARNING

**Extreme care shall be taken when mounting the enclosure, and making wire entry holes, to prevent metal chips, filings, and other contaminants from entering the enclosure which may damage the equipment and create a hazardous condition.**



### 3.1 Unpacking the EPM 4600 Meter Enclosure

The EPM 4600 in enclosure ships in two parts:

- The meter enclosure
- The mountable color display

The display is shipped separately in order to protect it from being damaged during shipping. Section 3.4 contains instructions for mounting the display.

The enclosure components are shown in the image below:

- A:** EPM 4600 current inputs (24 of them)
- B:** CT shorting blocks (8 of them)
- C:** CT connections
- D:** Voltage inputs and 5 fuses
- E:** Earth ground on inside of enclosure
- F:** Ground wire on enclosure door
- G:** Cable assembly
- H:** Display connectors
- I:** Hole for mounting the display
- J:** If ordered, optional Protocol Add-on PBA: Serial BACnet protocol converter or PLW: Serial LonWorks protocol converter.

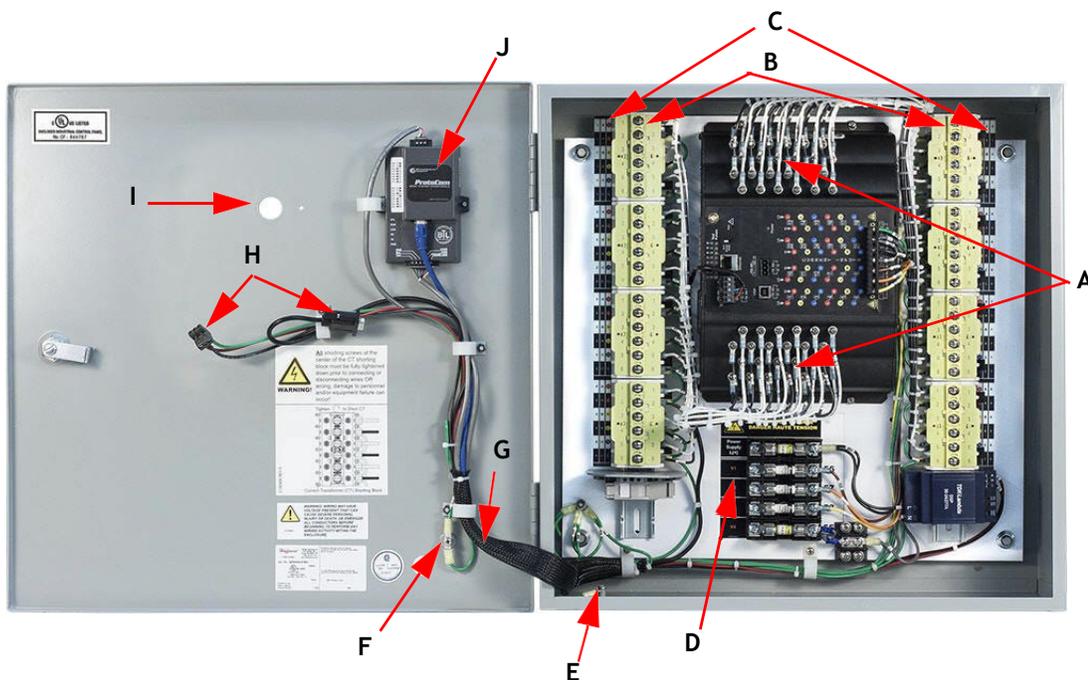
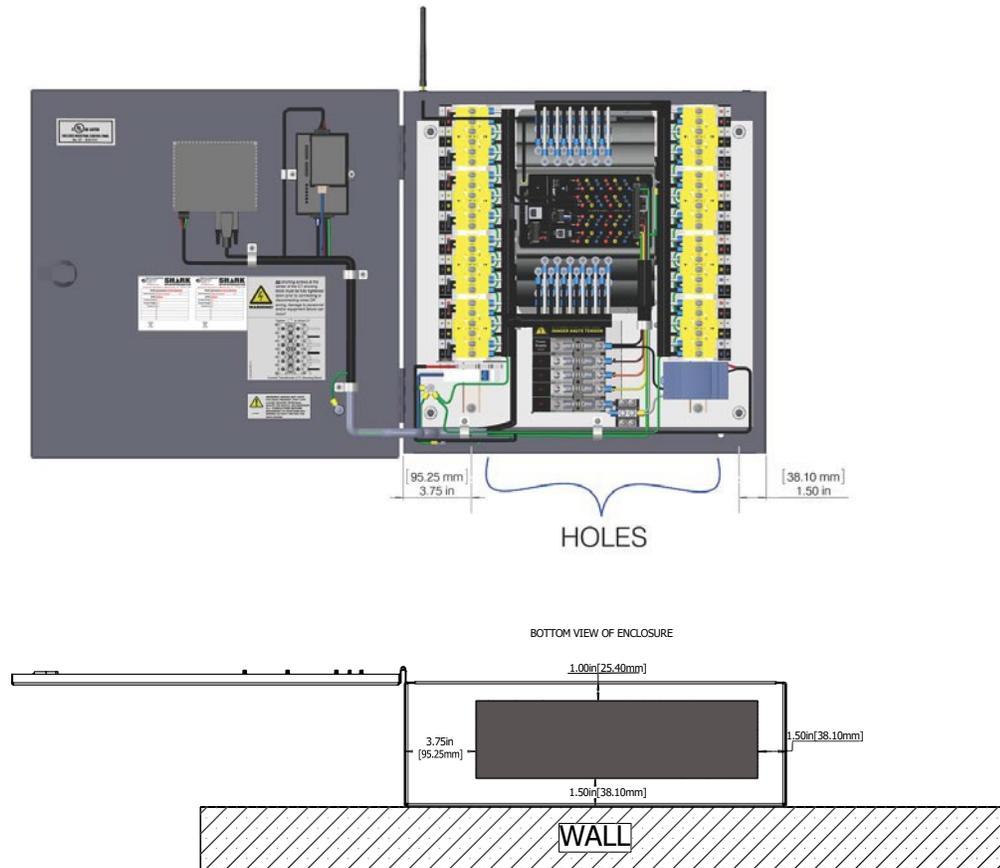


Figure 3-1: EPM 4600 Meter Enclosure as shipped

## 3.2 Cutting Wire Entry Holes

The enclosure does not come with wire entry holes (punch entries). They must be cut in the location you want depending on the installation. See Figure 3-2: Location of Recommended Punch Entries.



**Figure 3-2: Location of Recommended Punch Entries**

The drawings in Figure 3-2 show the area in the bottom of the enclosure where wiring holes can be cut: 1" [25.40mm] from the front of the enclosure, 1.5" [38.10mm] from the right side of the enclosure, 1.5" [38.10mm] from the back of the enclosure, and 3.75" [95.25mm] from the left side of the enclosure.

### **CAUTION**

- There are numerous methods for making wire entry holes in the enclosure but it is imperative that no loose material generated during the process remains in the enclosure. During installation and cutting the wire holes, all equipment mounted inside or on the enclosure shall be protected from loose material.
- No matter what procedure is used the installer shall verify that the hole cutting process will not damage any of the wiring or components installed inside or on the enclosure.

The two recommended procedures for cutting the wire entry holes are as follows:

- Use a "C" frame punch to cut the wire entry holes. This type of punch does not require a pilot hole. A typical "C" frame punch is shown below.



**Figure 3-3: "C" Frame Punch**

- Use a regular punch requiring pilot holes:
  1. Place a magnet inside the enclosure where the pilot hole is to be cut and completely cover the area with masking tape (or other very sticky tape).
  2. Drill the pilot hole from the outside and do not let the drill pass more than  $\frac{1}{4}$ " into the enclosure.
  3. Remove the tape, magnet, and cuttings and punch the hole.

After wiring and before energizing, vacuum the inside of the enclosure to make sure that it is free of foreign material. If a vacuum is not available use an alternate method to clean the inside of the enclosure. Do not use compressed air (or pressurized gas) to clean the inside of the enclosure as this may force cuttings into areas that cannot be seen, creating a hazardous condition.

**CAUTION**

**All wire entry into the enclosure shall be accomplished with the use of recognized fittings or strain reliefs. Bare holes shall not be used.**

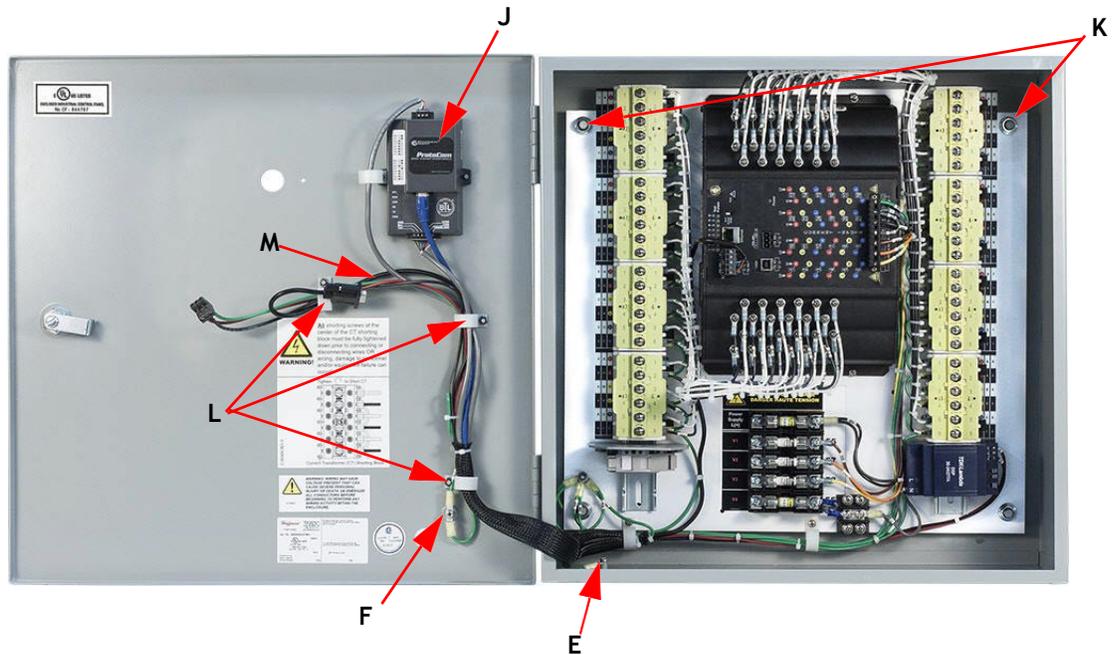
**All electrical connections made to this enclosure must meet the local electrical code.**

**NOTICE**

The panel can be removed to facilitate drilling of wiring holes. See the following procedure.

### 3.2.1 Removing and Reinstalling the Panel

If it will make it easier to cut or drill the wiring holes, you may remove the panel.



**Figure 3-4: Removing and reinstalling the panel**

#### Remove the panel as follows:

1. If the EPM 4600 in enclosure is equipped with a PBA/PLW add-on protocol unit remove all connections from the PBA/PLW (I).
2. Disconnect the green ground wires from the door (E).
3. Open the cable clamps on the door (L) and remove the cable assembly (M).
4. Remove the green ground wires on the lower left side of the enclosure (E).
5. Remove the four nuts, one in each corner of the panel [K].
6. Carefully remove the panel from the enclosure.

Cut or drill the wiring holes per the instructions in Section 3.2. You can then re-install the panel.

#### Reinstall the panel as follows:

1. Place the panel on the four mounting studs in the enclosure and install and tighten a nut on each of the studs (K).
2. Connect the green ground wires to the ground stud on the bottom left of the enclosure (E).
3. Insert the cable assembly (M) into the cable clamps on the door (L).
4. Connect the two green ground wires to the stud on the door (F).
5. If the EPM 4600 Meter Enclosure is equipped with a PBA/PLW Protocol Add-on, attach all connections to it (J).

Continue to the next section to mount the enclosure.

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### 3.3 Mounting the enclosure

Refer to the following diagrams for enclosure and mounting dimensions.

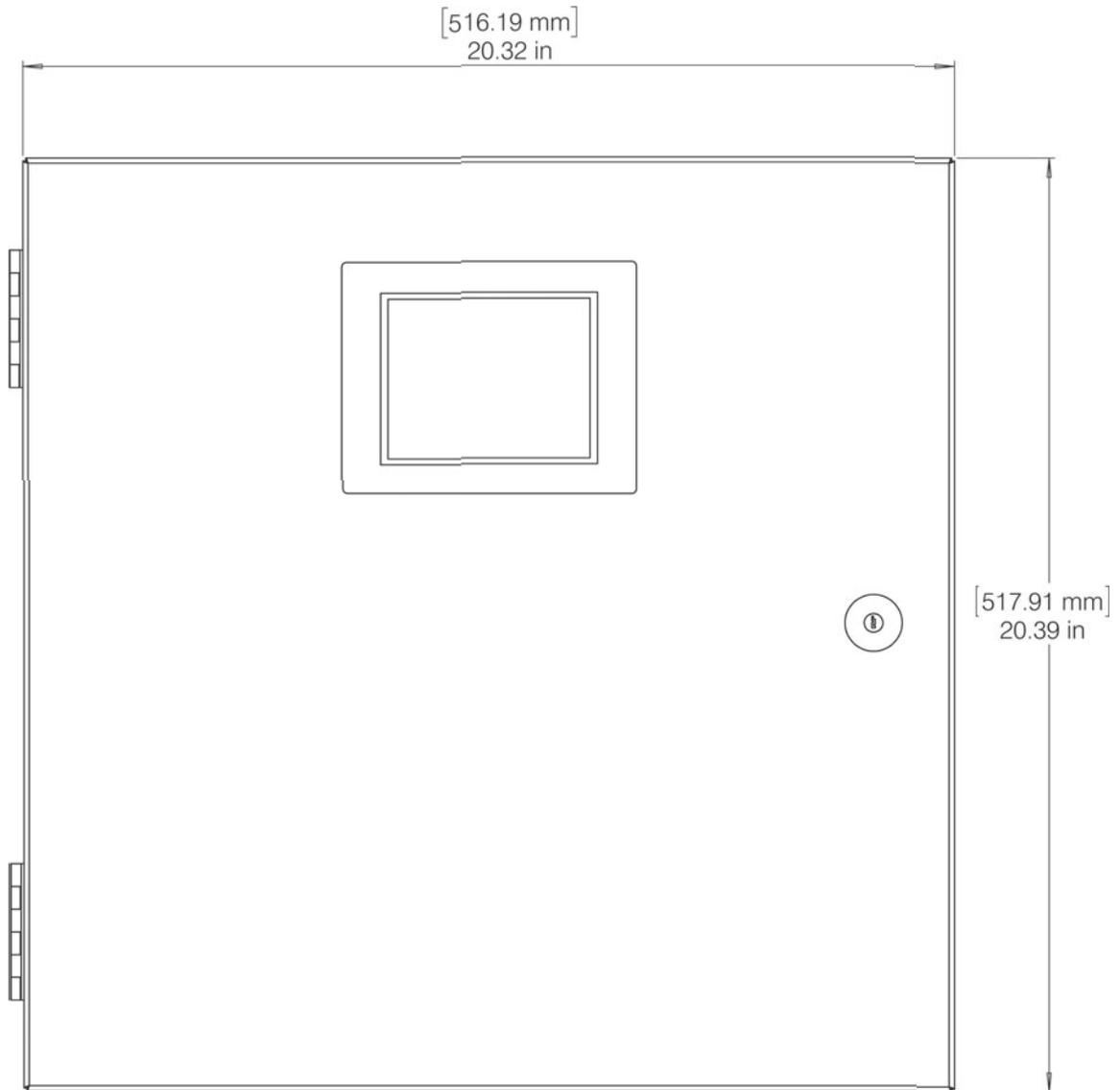
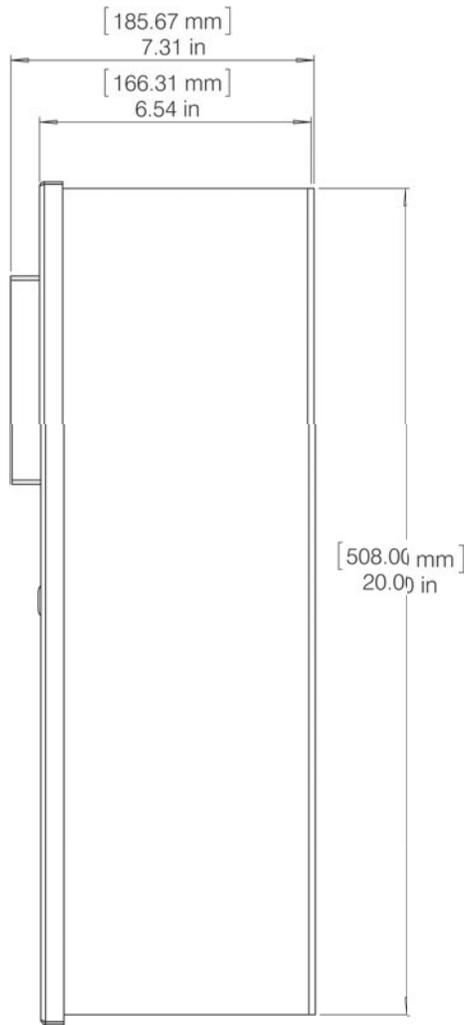
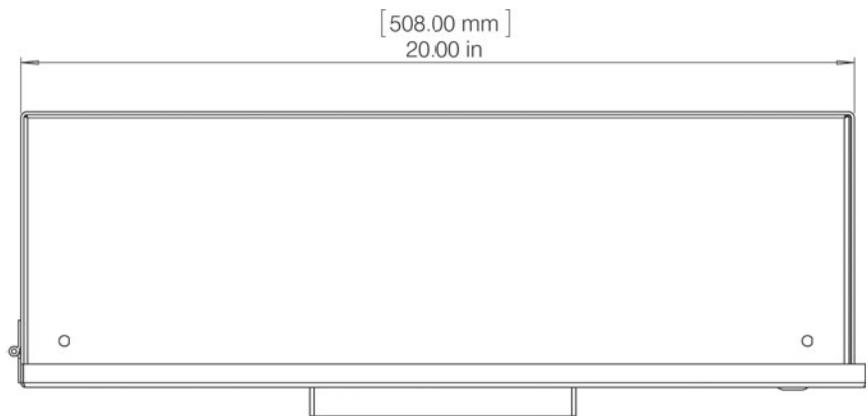


Figure 3-5: Enclosure Front Dimensions



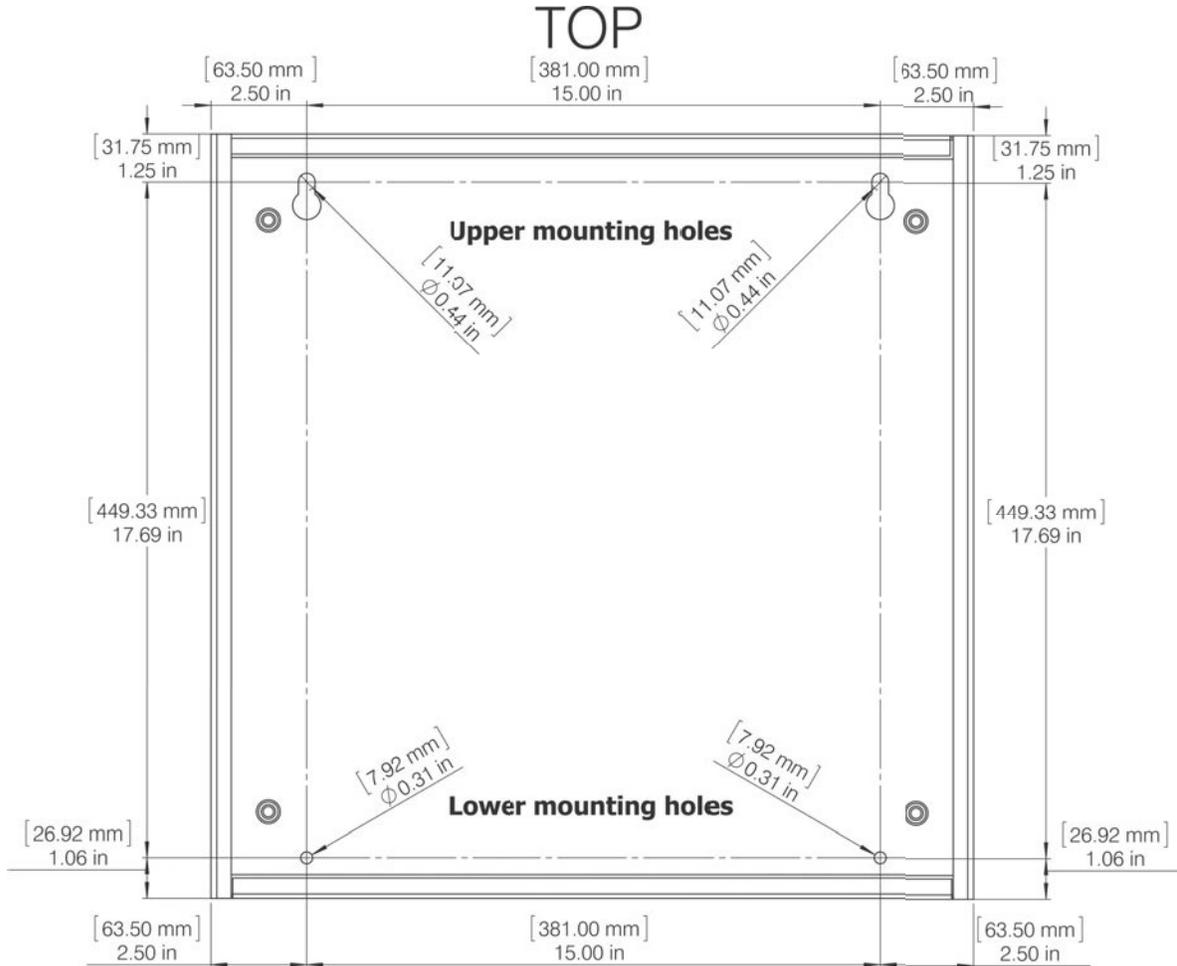
**Figure 3-6: Enclosure Side Dimensions**



**Figure 3-7: Enclosure Top Dimensions**

**3.3.1 Installation Steps**

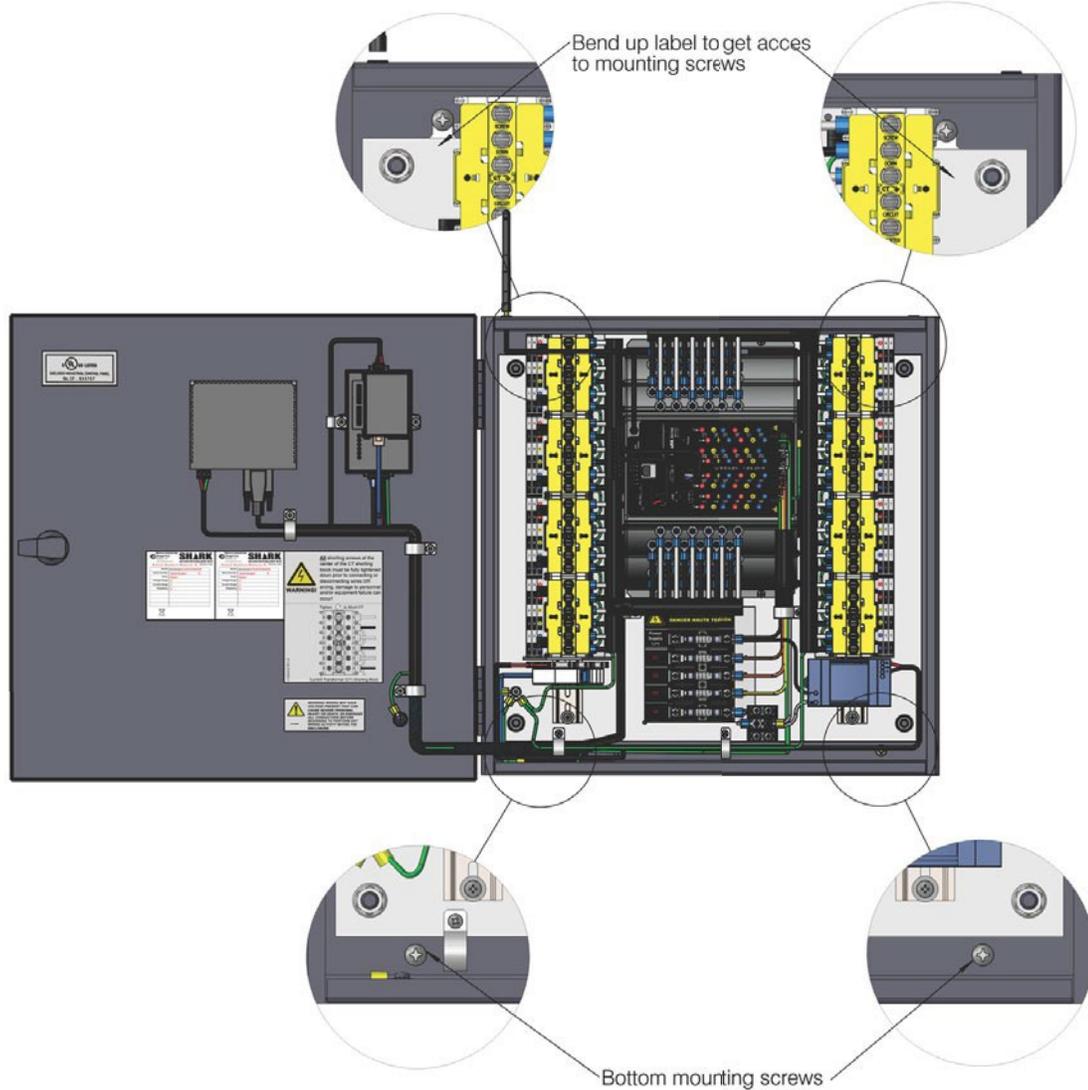
1. Determine the enclosure mounting location - where there are no obstacles and the exterior wiring can be easily accomplished. Install as per the NEC or local code requirements.
2. Mark the location of the four mounting points on the surface where the enclosure will reside.



**Figure 3-8: Mounting Hole Locations and Dimensions**

3. Prepare the mounting points using attachment means appropriate for the surface supporting the enclosure.
4. Put two fasteners (screws or bolts) in the top two mounting locations, the fasteners shall have a head diameter of no greater than 0.65" and a maximum body diameter of 0.25".
5. Install upper mounting screws; leave a 3/8" gap between the screw head and the mounting surface.
6. Lift the enclosure and hang it from the top two bolts.
7. Install lower mounting screws from the inside of the cabinet. Loosely tighten.
8. If necessary shim between the mounting surface and the enclosure to compensate for any irregularities.

9. Tighten the lower two fasteners.

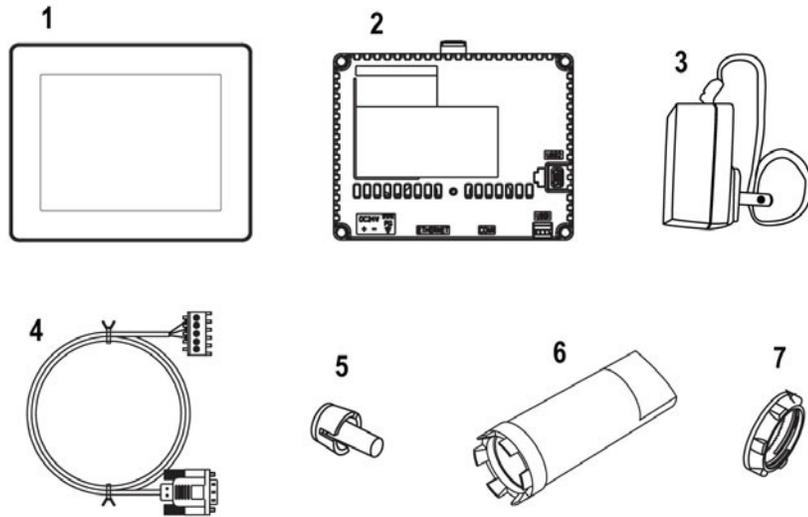


**Figure 3-9: Location of Mounting Screws**

10. Fold back the CT wiring labels in the upper right and left corners of the enclosure (see figure above) and tighten the upper two mounting fasteners.

### 3.4 Installing the Display

The display ships separately from the enclosure. The contents of the display box are shown below.



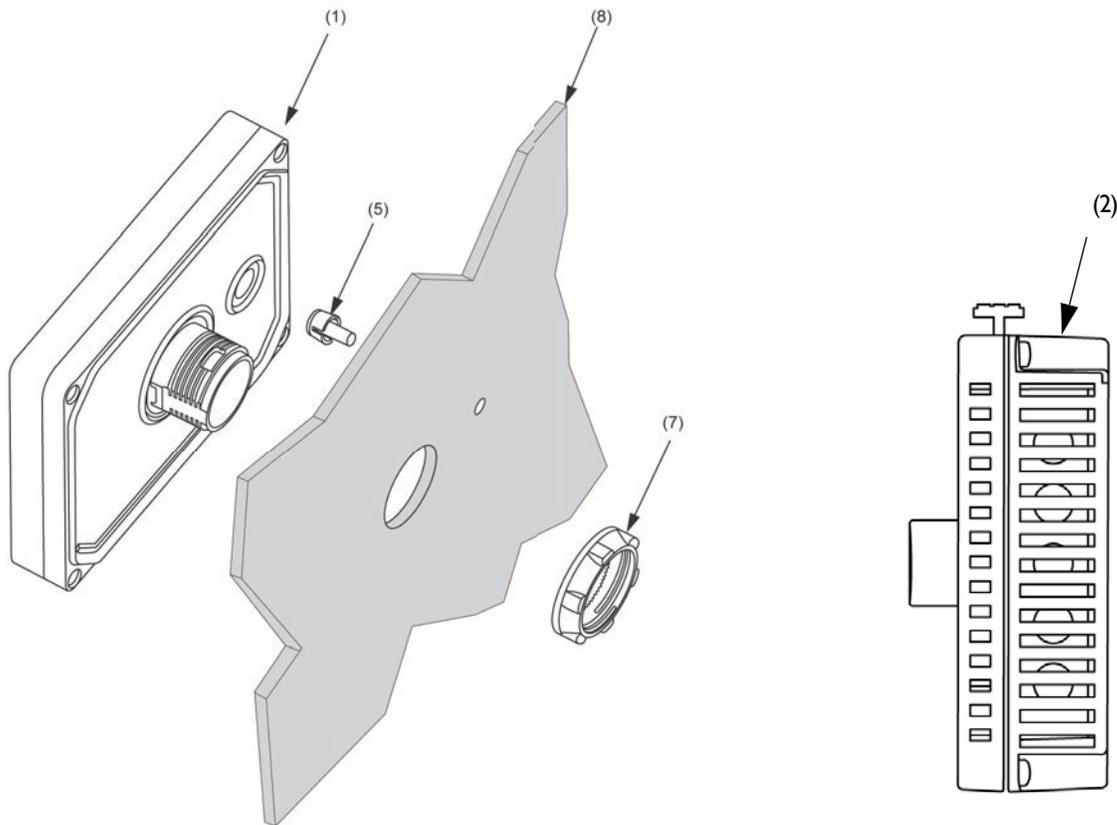
**Figure 3-10: Display Kit Contents**

- (1) Display
- (2) Rear Module
- (3) Power Supply\*
- (4) RS485 Serial Cable (10 feet)\*
- Mounting Hardware:
  - (5) anti-rotation tee
  - (6) socket wrench
  - (7) installation nut, attached to the back of the display

\*These items are included in the display box, but are only needed if you want to mount the display remotely rather than in the enclosure. If you are mounting remotely, cover up the display mounting hole that is in the enclosure cover.

To mount the display in the enclosure front cover, follow these steps:

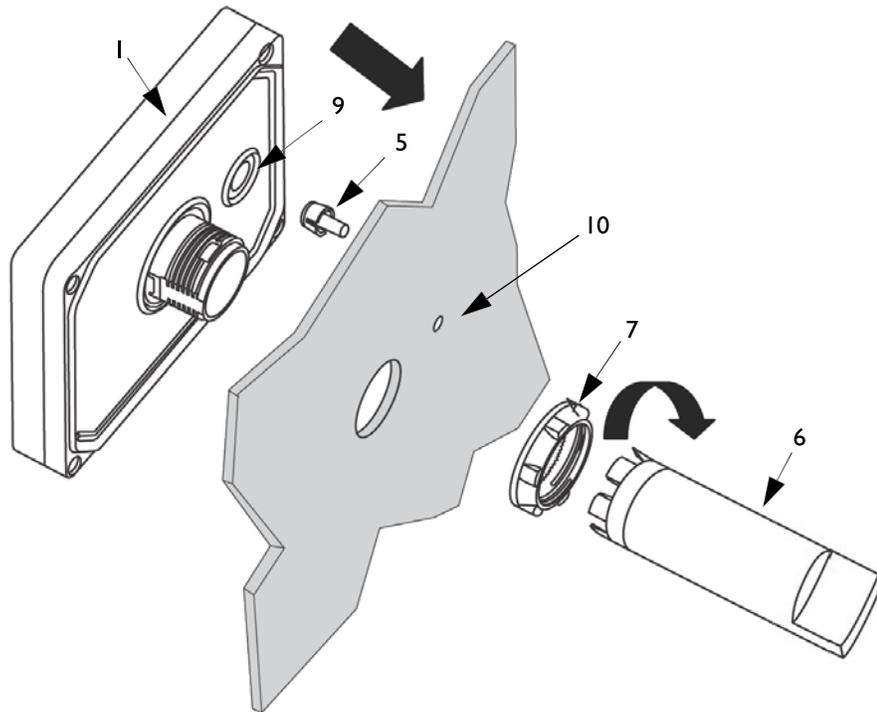
I. Locate the 5 parts to the display to be installed in the EPM 4600 Meter Enclosure:



**Figure 3-11: Display Components for Mounting in Enclosure**

- Display module and touch screen (1)
- Panel with cutout (3)
- Display installation nut (4)
- Anti-rotation Tee (5)
- Rear module, containing the electronics to run the display (2)

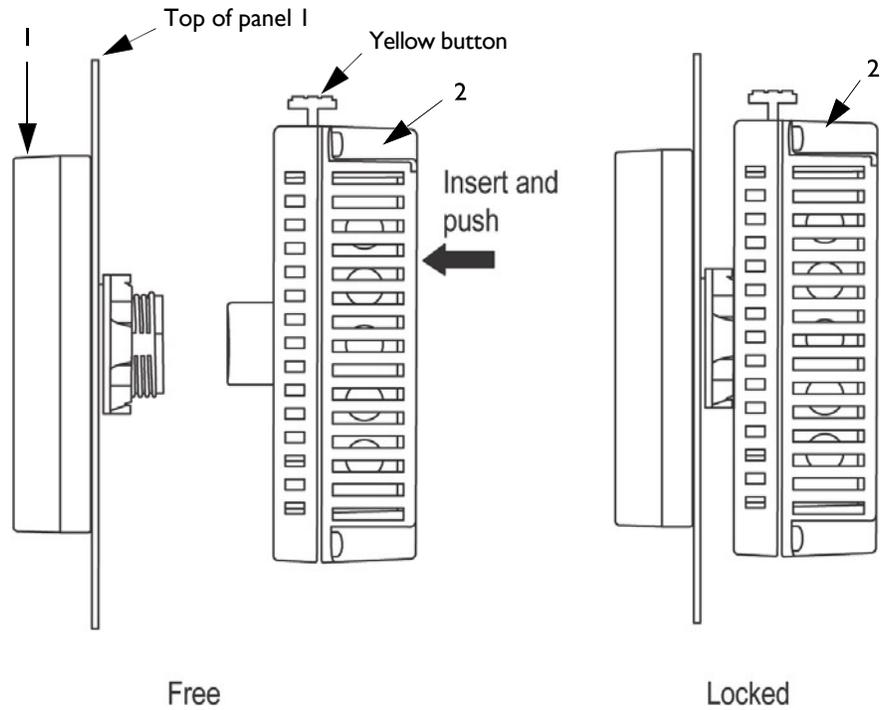
2. Press the Anti-rotation tee (5) into the display module (1), in the hole provided [9].



**Figure 3-12: Inserting the Display into the Panel**

3. Insert the display module, with the anti-rotation tee attached, into the cutout, aligning the anti-rotation tee so that it passes through the small hole in the panel (10).
4. Place the display installation nut (7) on the portion of the display passing through the panel and “finger tighten” it.
5. Using the socket wrench supplied [6], tighten the display installation nut (7) with a torque between 1.2 and 1 Nm (10.6 to 17.7 in-lb).

- Carefully insert the rear module (2), with the yellow button to the top of the enclosure, and push the rear module until it locks into place. When it is in place you will hear a "click."

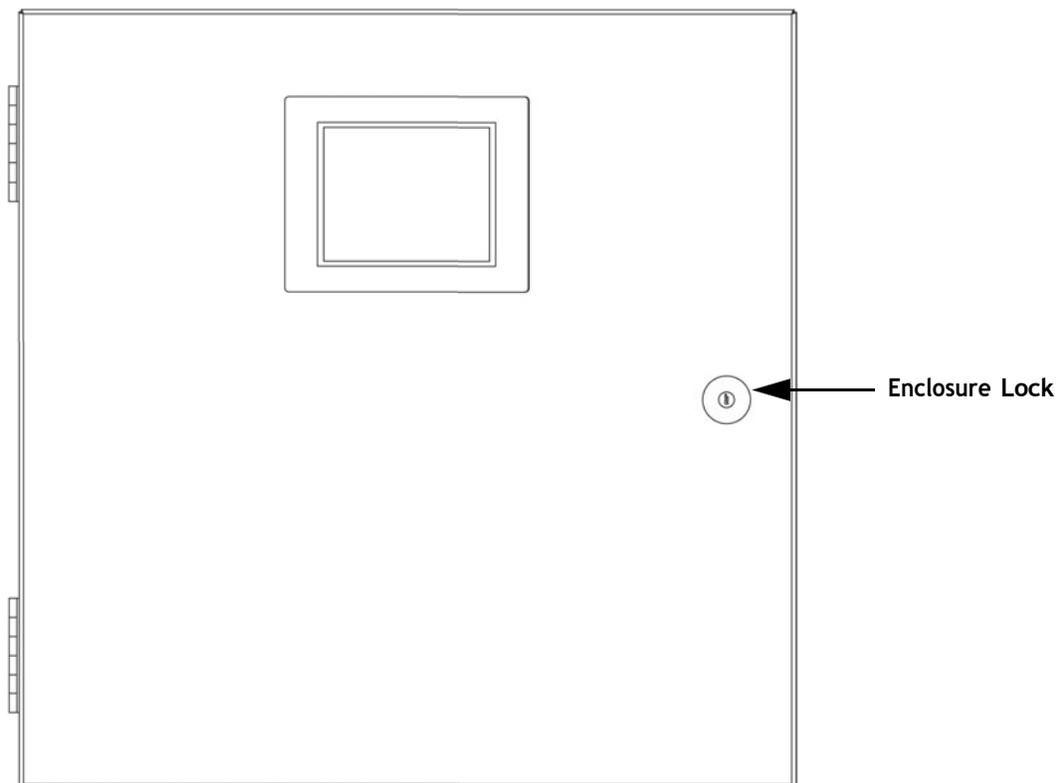


**Figure 3-13: Connecting the Rear Module to the Display Module**

- Connect the cable to the rear module: see Figure 3-1.

### 3.5 Locking the Enclosure

The enclosure has been fitted with means for securing the door so it cannot be opened or tampered with. A key lock is provided along with two keys.



**Figure 3-14: Location of Enclosure Lock**

1. Lock the enclosure by putting the key in the lock and turning it clockwise.
2. Remove the key and store it in a safe place. When you want to open the enclosure, put the key in the lock and turn it counter-clockwise. Repeat step 1 to re-lock the enclosure.

# EPM 4600 Meter Enclosure

## Chapter 4: Electrical Wiring

The EPM 4600 Meter Enclosure is factory wired and tested. Installation requires solidly mounting the enclosed unit and connecting field wiring. This document has diagrams of wiring options. Review and understand the appropriate diagrams for the unit you have ordered.

### NOTICE

See the following diagram for input wiring specifications. Consult your local and/or National Electric Code for external wiring requirements.

Both enclosure models are pre-wired and programmed for either three-phase or single-phase operation.

### CAUTION

The current inputs are only to be connected to external current transformers provided by the installer. The CT's shall be Approved or Recognized and rated for the current of the meter used.

**A DISCONNECTING MEANS AND UPSTREAM PROTECTION SHOULD BE INSTALLED FOR ALL CIRCUITS. A SHORT-CIRCUIT-TYPE TERMINAL BLOCK IS PROVIDED FOR THE CURRENT TRANSFORMER CIRCUIT.**

Table 4–1: Input Wiring Specifications

Location	Wire Size	Screw Size	Maximum Torque
Shorting Block	#6-22 AWG CU	#10-32	20 lbf-in (2.3 N-m)
Fuse Block L(+), V1-V3	#10-18 AWG CU	#10-32	20 lbf-in (2.3 N-m)
Fuse Block V4	#10-12 max CU	#10-32	20 lbf-in (2.3 N-m)
Earth Ground	#10-12 AWG CU	#8-32	10 lbf-in (1.2 N-m)

## 4.1 Wiring Instructions



First connect Earth Ground as shown in the figure below.

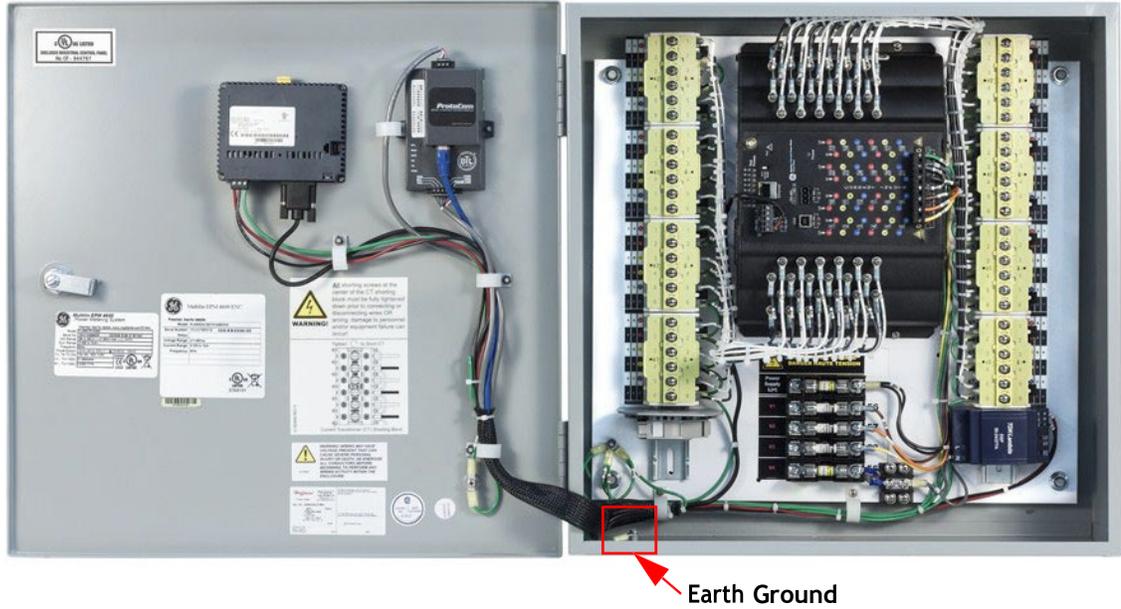


Figure 4-1: Earth Ground Connection

Understand the diagram(s) that pertain to your unit before you begin the field wiring. The following figures show the available wiring options. Understand your system and use the appropriate figures.



**CONTROL WIRING MAY HAVE VOLTAGE PRESENT THAT CAN CAUSE SEVERE PERSONAL INJURY OR DEATH. DE-ENERGIZE ALL CONDUCTORS BEFORE BEGINNING TO PERFORM ANY WIRING ACTIVITY WITHIN THE EPM 4600 METER ENCLOSURE.**

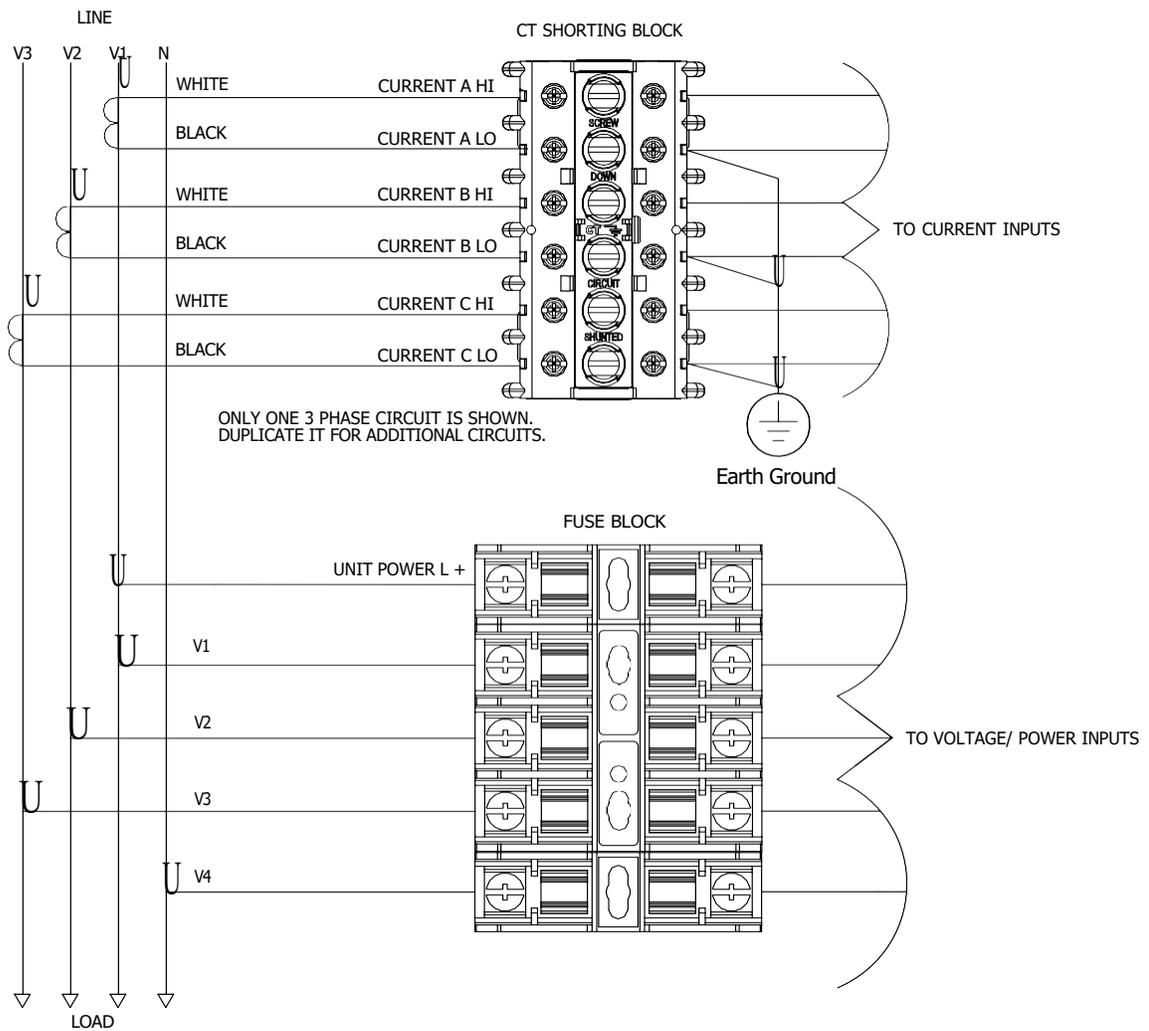


Figure 4-2: EPM 4600-T Three-Phase Wiring Diagram

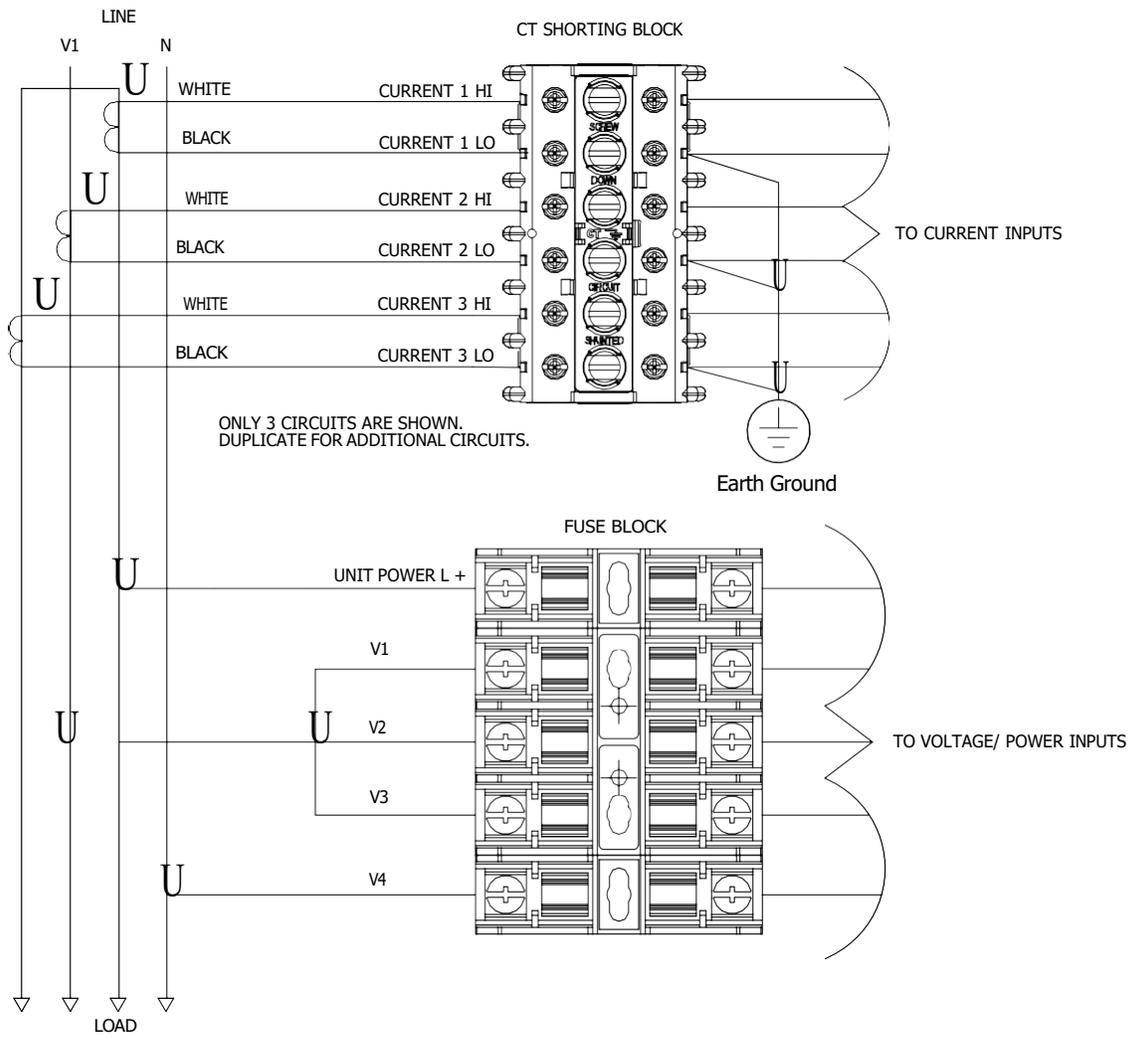


Figure 4-3: EPM 4600-S Single-Phase 2 Wire Wiring Diagram

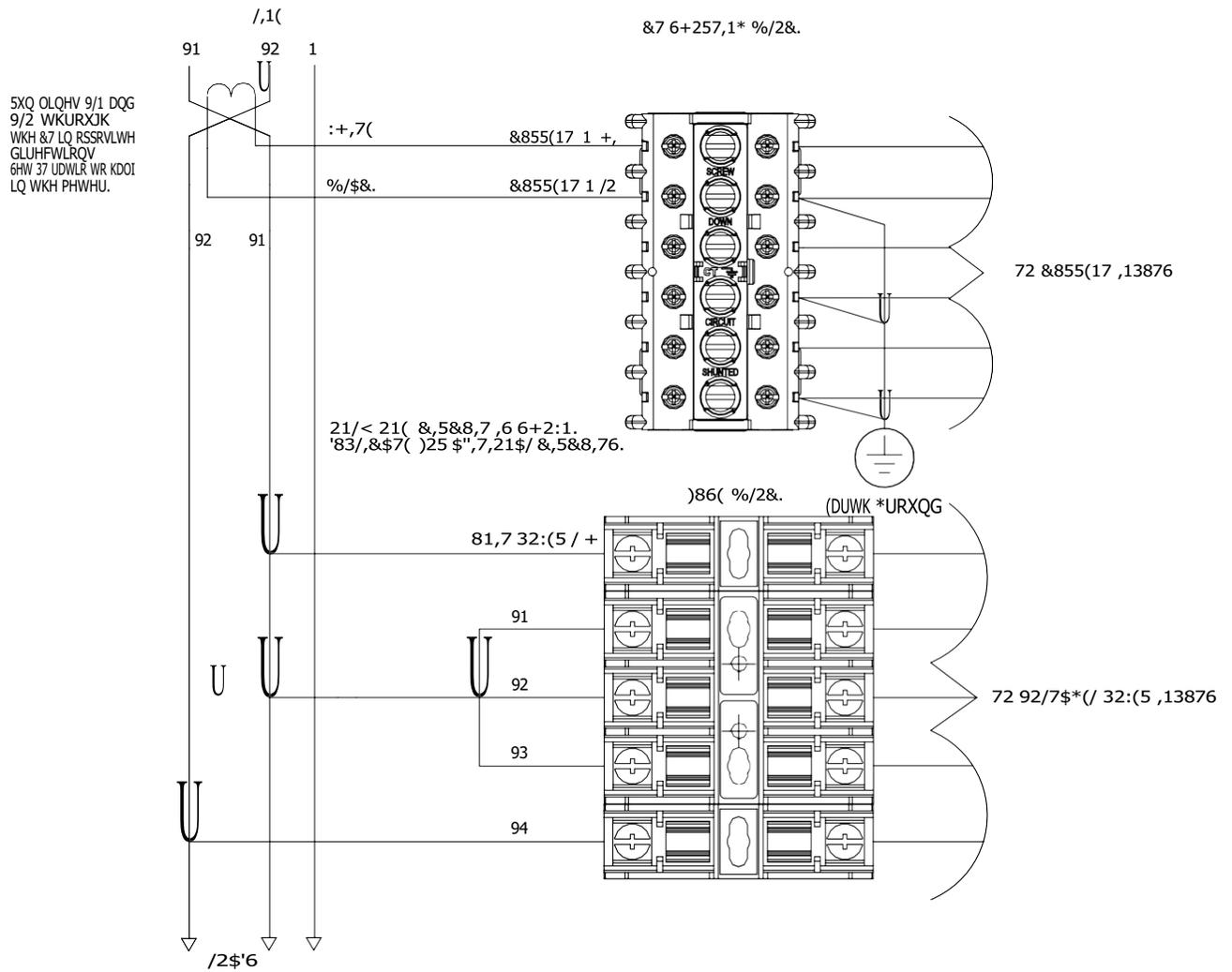


Figure 4-4: EPM 4600-S Single-Phase 3 Wire Wiring Diagram



# EPM 4600 Meter Enclosure

## Chapter 5: Operation

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### 5.1 Meter Enclosure operation

The EPM 4600 Meter Enclosure comes equipped with three 10mm x 38mm, 600V, 100mA, fast-acting fuses and two 10mm x 38mm, 500V, 3A, time delay fuses for the protection of the meter's sense voltage and control power circuits, respectively.

A disconnecting means and upstream protection should be installed for all circuits. Short-circuit type terminal blocks are provided for the current transformer circuit. Shorting screws are included (see instructions in Section 6.1).

The temperature rating for enclosure operation is from 0°C to +50°C.

For meter operating instructions, refer to the EPM 4600 Instruction Manual on the enclosed CD.

---

## 5.2 Troubleshooting

Symptom: Extremely inaccurate readings of voltage and/or harmonics. Perform these two tests:

1. With fuses removed from the unit, test the fuses with an ohmmeter. All of the fuses must show a resistance of  $<2$  Ohms.
2. With the unit fully powered, measure the voltage on the input side and output side of the fuse. The voltages should differ by less than 1 Volt.

# EPM 4600 Meter Enclosure

## Chapter 6: Maintenance

The EPM 4600 Meter Enclosure is designed to be relatively maintenance-free under normal use. However, because of the variability of application conditions and the importance placed on dependable operation and inspection, you should perform maintenance checks on a regularly scheduled basis. Visually inspect for loose parts, wires, and/or hardware; inspect for discoloration of insulation and damaged or discolored components; be alert for accumulation of dirt and/or moisture on structure; check operation of disconnecting means and continuity of fuses, where applicable.

---

## 6.1 Removing a Meter From Service

Follow these steps:

1. De-energize all circuits feeding the case.
2. If possible de-energize lines that the CTs are on.
3. Tighten all the shorting screws on all the CT shorting blocks by turning all the screws clockwise until they bottom out.

### WARNING

If the meter must be removed from service, the secondary side of the current transformers **MUST** be short circuited to prevent a dangerous high voltage condition from appearing across the secondary wires of the current transformer. **Arcing and damage to personnel and/or equipment can occur if the screws provided on the shorting block are not installed in the correct locations, prior to disconnecting any wires.**

The six brass screws that are parked on each corner of the shorting block are used to short the high (+) sides and low (-) sides of the CT outputs to the brass bar that is across the middle of the shorting block. The pre-installed jumper connects all lows together and to ground.

### WARNING

**The brass screws need to be screwed down until the end of the screw makes contact with the terminal strip below, enabling the brass bar to become electrically common with the terminal strip.**

The figures below shows which terminals/holes the screws must be installed in to safely short the secondary of the CTs.

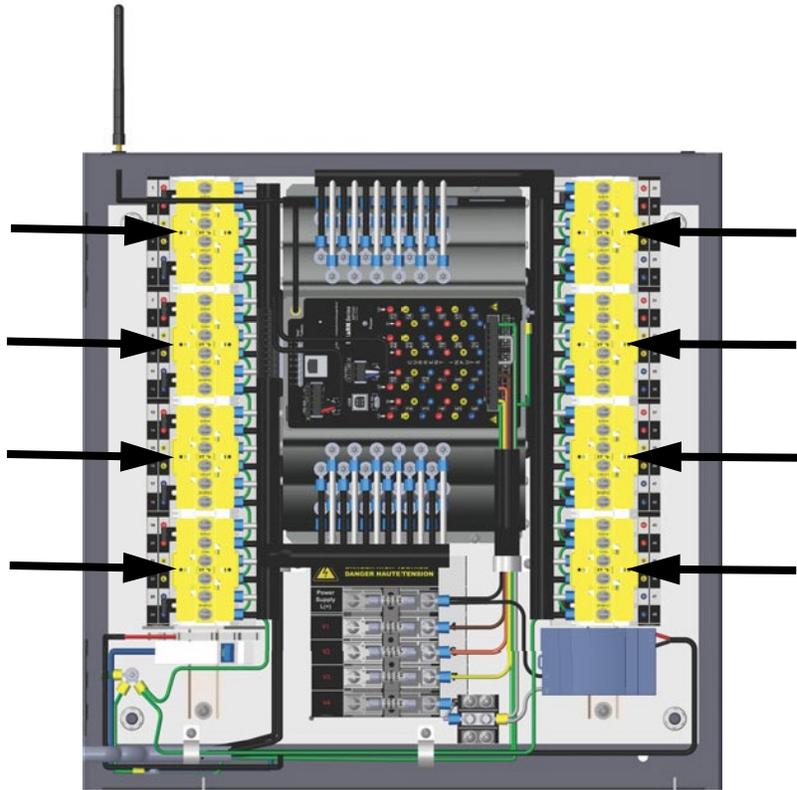


Figure 6-1: CT/Shorting Block Locations

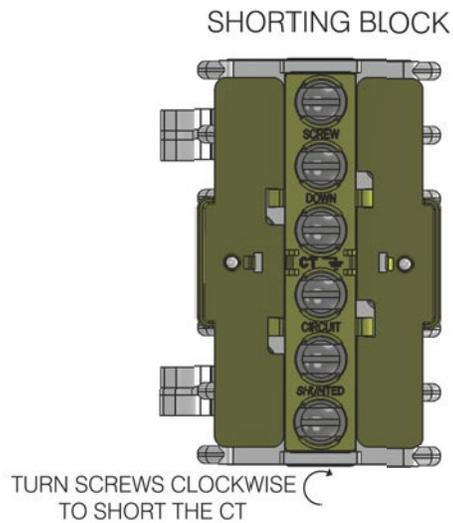


Figure 6-2: Shorting the CT

**⚠ WARNING**

When you re-install the meter, make sure all CT connections are made **BEFORE** removing the shorting screws, and then return the screws to their holder. See Section 6.2.

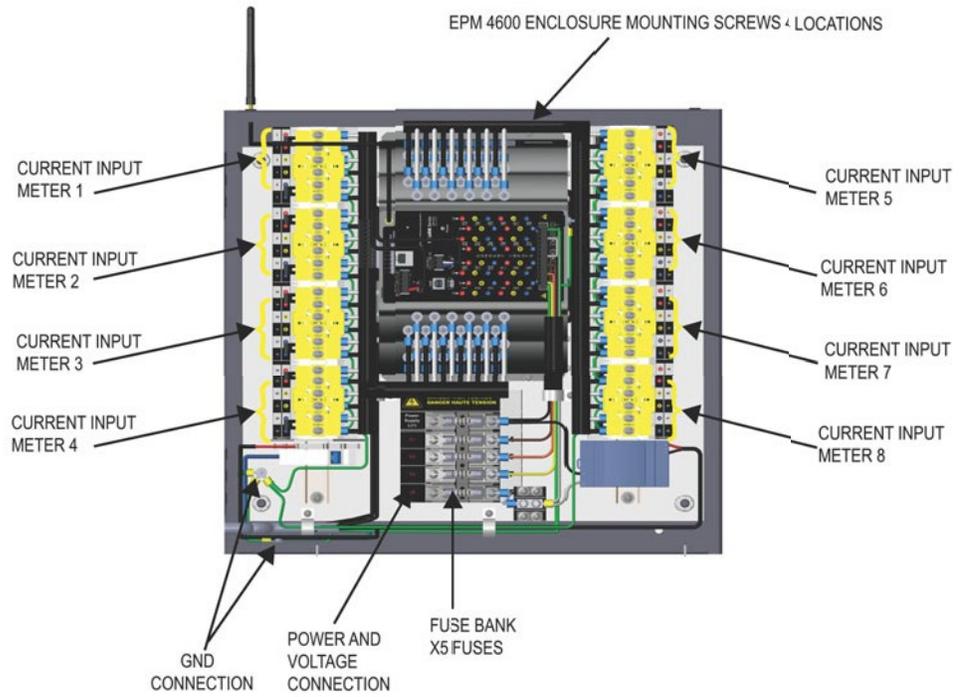


Figure 6-3: EPM 4600-T (three-phase) Enclosure Location of Fuses, Current Leads, Connectors, and Mounting Screws

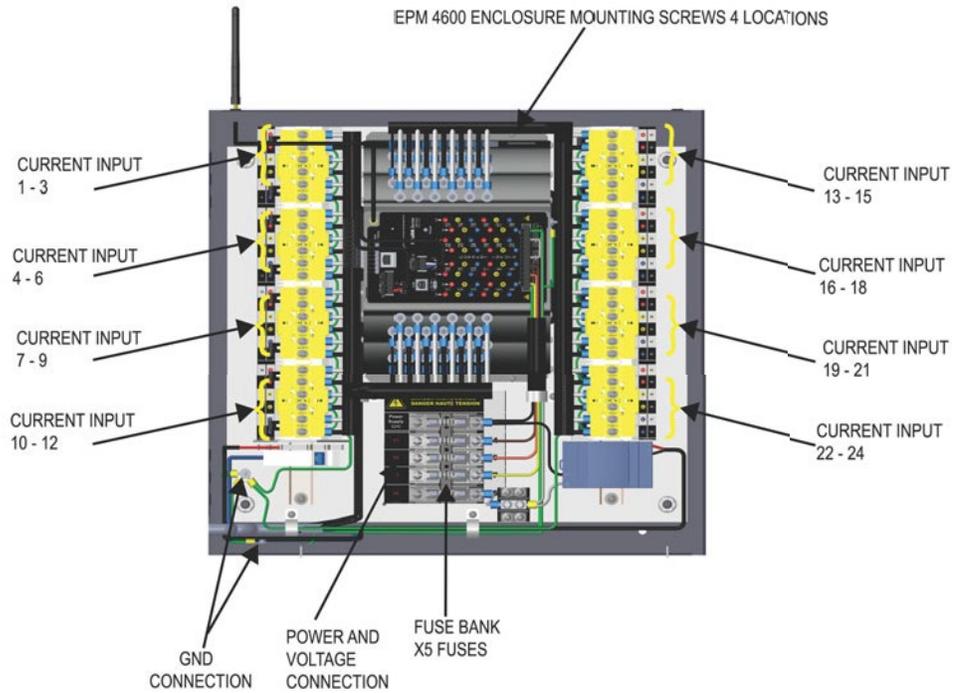


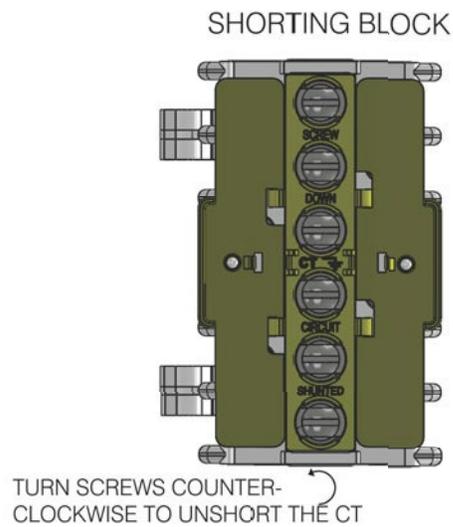
Figure 6-4: EPM 4600-S (single-phase) Enclosure Location of Fuses, Current Leads, Connectors, and Mounting Screws

4. Remove the 4 fuses from the fuse block.
5. Un-screw and disconnect the 48 current leads to the meter.
6. Disconnect all connectors to the meter.
7. Remove the 4 mounting screws securing the EPM 4600 to the panel.
8. Remove the meter.

## 6.2 Reinstalling the Meter

Follow this procedure to reinstall the meter:

1. Place meter in its location on the panel.
2. Tighten the 4 mounting screws.
3. Insert all connectors into the appropriate sockets on the meter.
4. Connect the 48 current leads to the meter making sure they are attached in the proper order.
5. Install the 5 fuses in the fuse block in their proper location.
6. Unscrew all shorting screws on the CT connection block. See the figure below.



**Figure 6-5: Un-shorting the CTs**

7. Verify that no foreign material remains inside the enclosure; if there is, clean it out.
8. Energize all circuits and verify operation.

# EPM 4600 Meter Enclosure

## A: Appendix

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### A.1 Change Notes

**Table A-1: Revision History**

Manual P/N	Revision	Release Date
1601-0655	A1	January 2016

**Table A-2: Updates for 1601-0655-A1**

Sect (A1)	Description
	Initial manual release

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## A.2 Warranty Statement

For products shipped as of 1 October 2013, GE Vernova Digital Energy warrants most of its GE Vernova manufactured products for 10 years. For warranty details including any limitations and disclaimers, see the GE Vernova Digital Energy Terms and Conditions at <https://www.gevernova.com/grid-solutions/multilin/warranty>

For products shipped before 1 October 2013, the standard 24-month warranty applies.