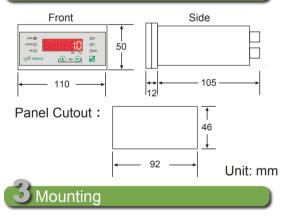
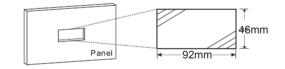


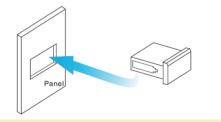
Z Dimensions

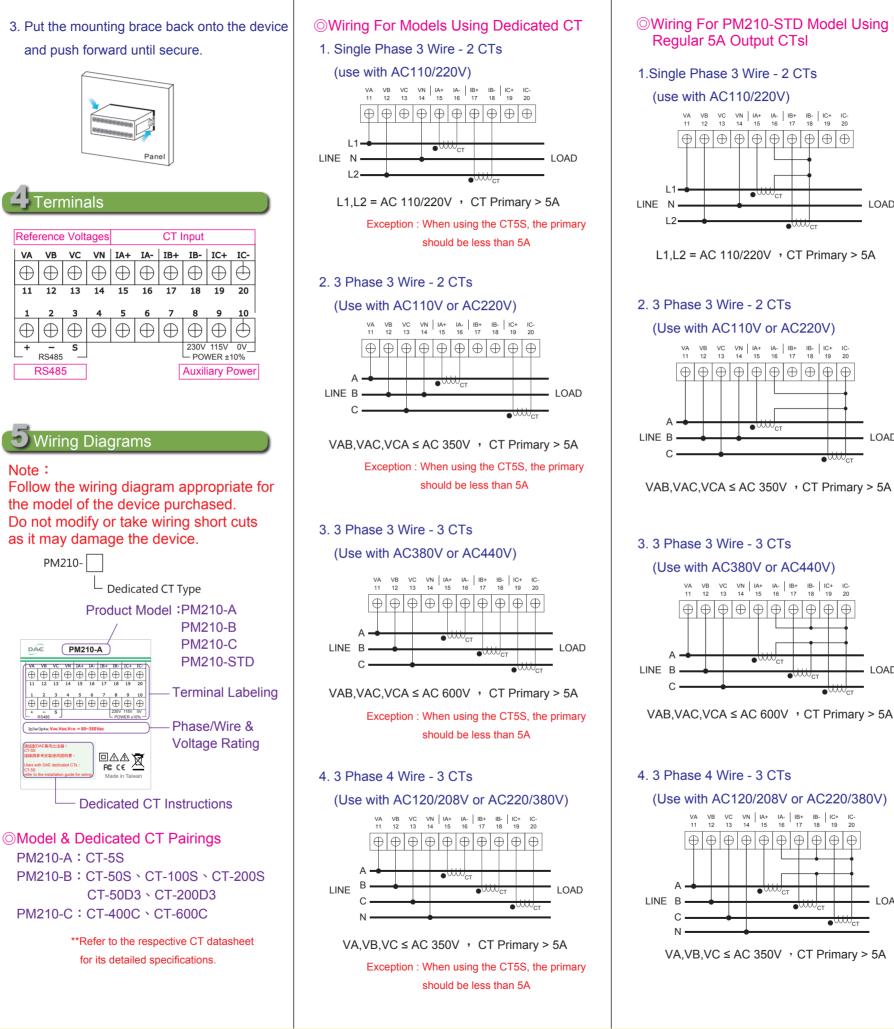


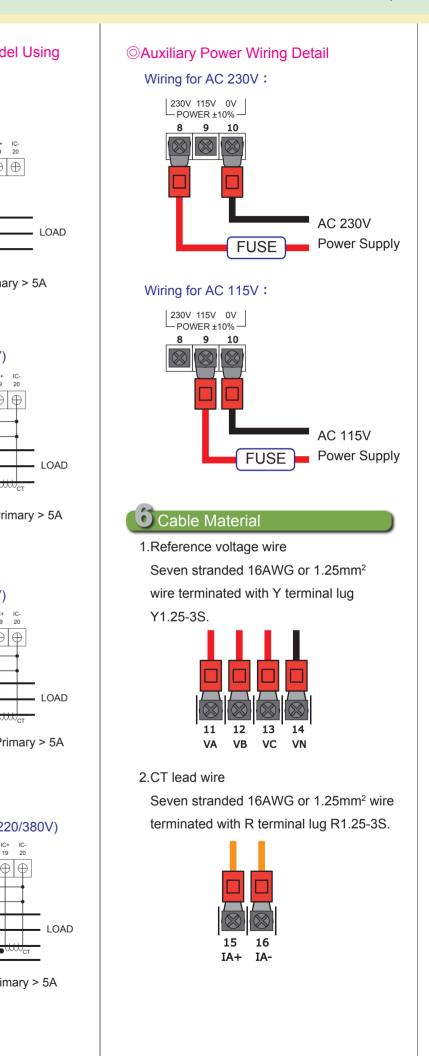
1. Make a cutout in the panel to fit in the device

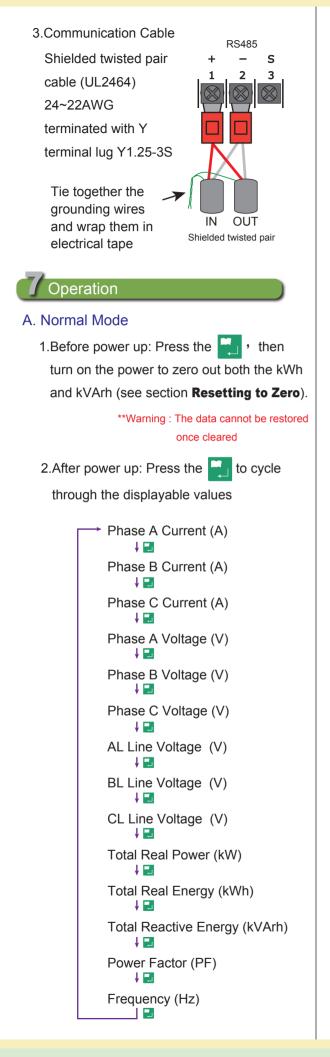


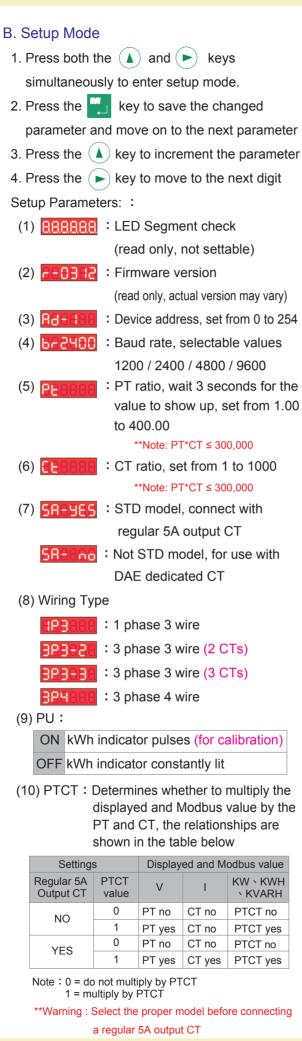
2. Remove the mounting brace, insert and push device into cutout, rear end first.











• Power Up Checklist

A. Before Power Up

- 1. Make sure that the auxiliary power is properly connected.
- 2. Make sure that the CTs are wired properly using the appropriate wiring diagram.
- \square 3. Make sure that the wires are tightly and securely screwed.
- 4. Make sure that the PM210 is mounted securely.
- 5. Make sure that the RS485 polarity are connected (+) to (+) and (-) to (-).

B. After Power Up

- 1. Make sure that each LED segment lights up.
- 2. Check that each parameter setting is set accordingly.

Wiring and Setup Checklist

- 1. Check that the wiring type setting matches the actual CT wiring.
- 2. Check that the auxiliary power is connected correctly (note that 110V and 220V have different terminals)
- 3. Check that the PT ratio is set in accordance with PT used.
- 4. Check that the CT ratio is set in accordance with CT used.
- 5. Check that the wires are screwed tightly to their terminals.
- Check that the device address setting matches the meter reading software.
- 7. Check that the reference voltage is for the load being measured.
- 8. Check that the baud rate matches the meter reading software.

Troubleshooting

- Q: Why are there nonsensical values for the 3 phase current, power or power factor?
- A : (1) This could be because the orientation and pairings of the voltages or currents are mismatched.
 - (a) The CT lead wires has been reversed or the direction of the load wire is in the opposite direction.

- (b) The voltage and current phases are mismatched. Example: The A phase voltage is paired
 - with the B phase current
- (2) The voltage and current phases are already wrong for the existing wiring.
- (3) Use a high accuracy multi-meter to check that the values are truly nonsensical.
- Q: The voltage value is correct, but why does the current value remain at zero?
- A: (1) Is the load active or is it stopped or off. (2) Check that the load has not been open circuited: that the fuse has not been blown or the breaker tripped.
 - (3) Check that the circuit being measured is the actual load.
 - (4) Check that the CT is not defective.

Q: Why is the communication unstable or non-existent?

- A: (1) Make sure that the bus is daisy chain and neither as star nor tree topology. (2) Check that the communication converter is
 - working and set up working properly and that the there are no shorts or open circuits.
 - (3) Check that the device address, baud rate matches that of the meter reading software. Each device on the same bus should have its own unique address and should not be duplicated. The baud rates for all devices should be the same.
 - (4) Check to make sure the there are no reversed polarities on the RS485 bus. All (+) are connected together and all (-) are connected together.
 - (5) The bus should not form a closed loop.
 - (6) Total bus length should not be more that 1000 meters long and total devices on the bus should not be more 32. Use repeaters if the bus is to exceed 1000 meters.

Safety Precautions

Please follow the precautions outlined below for the protection your safety and that of the device.

- 1. After opening the packaging, check to make sure that nothing has been damaged during transport.
- 2. Check that the model and specifications printed on the box and the device are the same. 3. This device is suited for regular power panels.

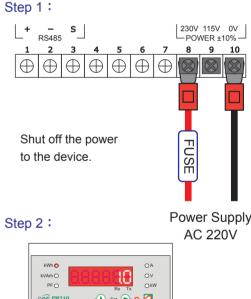
- 4. This device does not require special ventilation or heat dissipation.
- 5. Strictly follow the recommended wiring diagrams.
- 6. Do not install device in places where it will get wet, accumulate moisture, or accumulate dust.
- 7. When installing this product, also install the fuses, breakers or other power cutoff safety devices at the same time.
- 8. This mark
 means double insulation.



Warning! When installing or making changes to the wiring, make sure to turn off power to the product and adjacent sources of high voltage to avoid electric shock.

Resetting to Zero

Resetting the accumulated meter reading to zero after completing the installation and testing. :





Press and hold the page/enter button; do not let go until completing step 3.

Step 3:



Restore power to the device, the button can now be let go of; both the kWh and kVArh have now been reset to zero.

