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## Assembly Instruction

### Multi-function Meter SMART 7KT 7KT0310



Please read and understand these instructions before installing, operating, or maintaining the equipment.

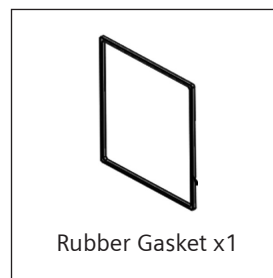
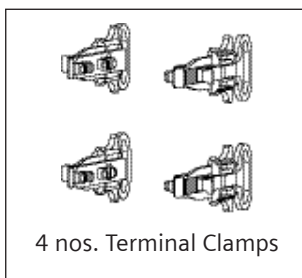
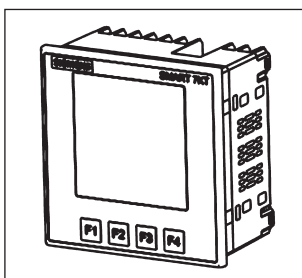


#### DANGER

Hazardous voltage. Will cause death or serious injury. Turn off and lock out all power supply to this device before working on this device.

Replace all covers before power supplying this device is turned on.

### Contents

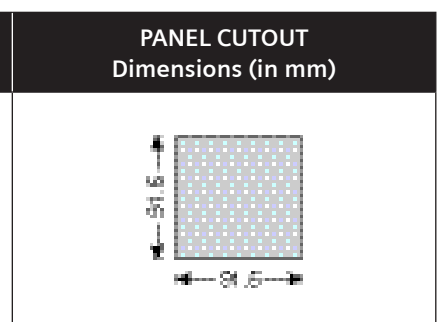
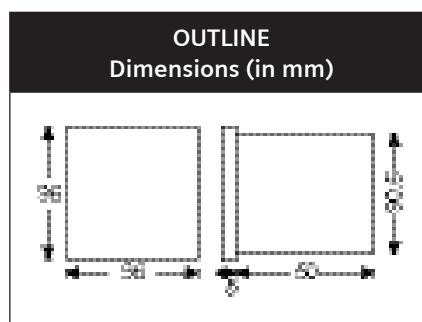
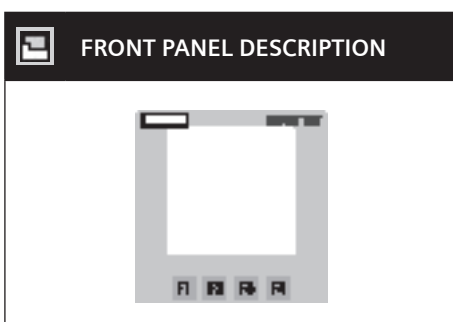


Cross recessed Phillips head

### Installation

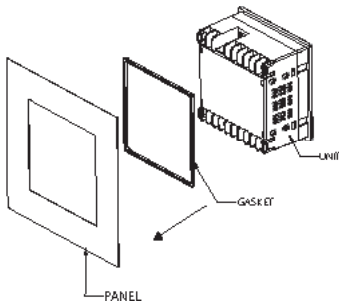
#### For installing the meter

Prepare the panel cutout with proper dimensions as shown below.

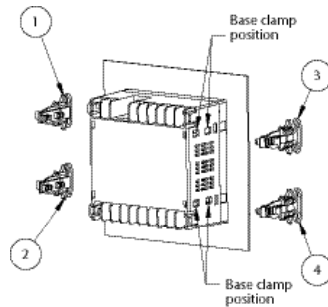


## Installation (Continued)

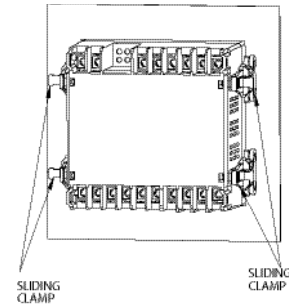
1. Insert unit into the panel



2. Position the clamps (as shown in the figure) and push the same into the slots in their respective locations.



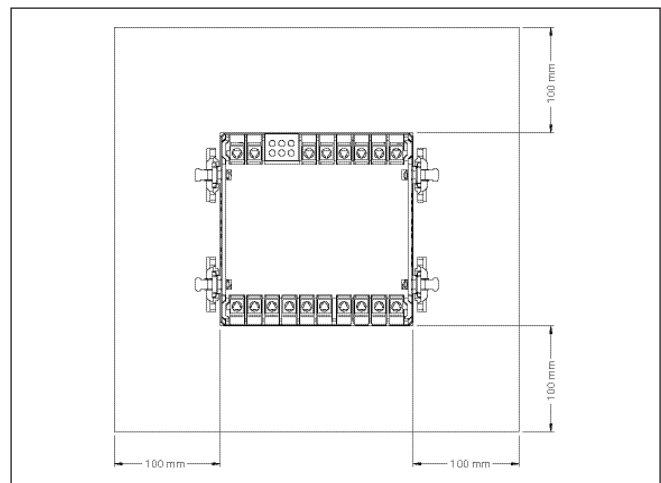
3. Push/Slide all 4 clamps towards the panel evenly till the lowest possible tooth of the clamp is engaged. **Ensure the meter is properly tightened and it does not move.**



Note: Terminal screw tightening torque: 0.7 N-m to 0.8 N-m (6 In-Lb to 7 In-Lb)

## Mounting distance

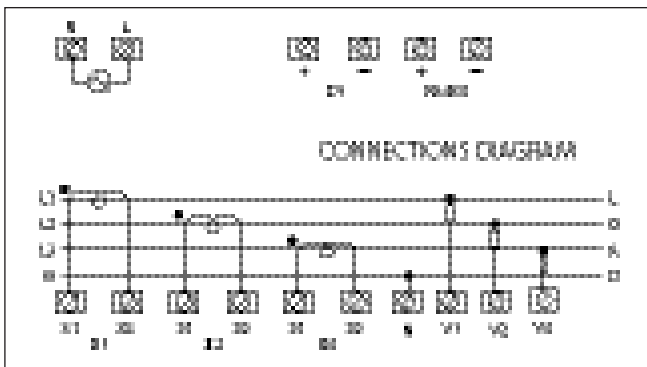
The distance to be maintained between two meters while mounting on a panel door should be at least 100 mm.



## Installation Guidelines

1. This equipment, being built-in-type, normally becomes a part of main control panel and in such case the terminals do not remain accessible to the end user after installation and internal wiring.
2. Conductors must not come in contact with the internal circuitry of the equipment or else it may lead to a safety hazard that may in turn endanger life or cause electrical shock to the operator.
3. Circuit breaker or mains switch must be installed between power source and supply terminals to facilitate power 'ON' or 'OFF' function. However this switch or breaker must be installed in a convenient position normally accessible to the operator.
4. Before disconnecting the secondary of the external current transformer from the equipment, make sure that the current transformer is short circuited to avoid risk of electrical shock and injury.
5. The equipment shall not be installed in environmental conditions other than those mentioned in this manual.
6. The equipment does not have a built-in-type fuse. Installation of external fuse of rating 275V AC / 0.5Amp for electrical circuitry is highly recommended.
7. Remove the scratch-guard from the meter display during commissioning of the panel.

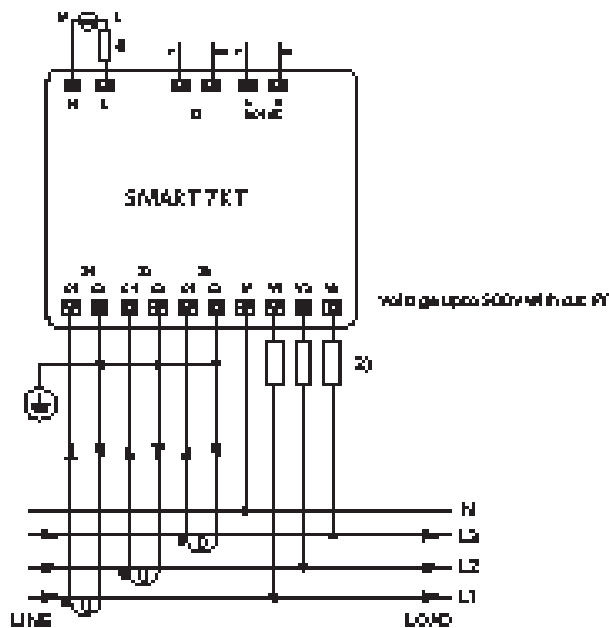
## Connection diagram



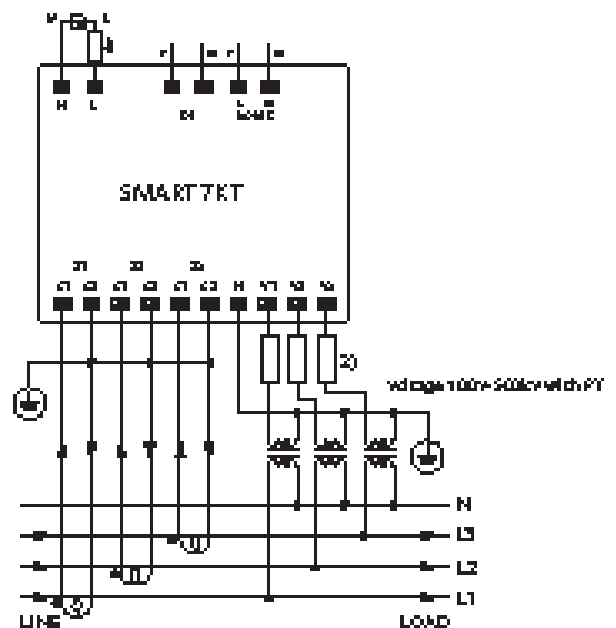
## Circuit Diagram

### 3 Phase 4-Wire (commonly used)

3 Ø - 4 Wire, 3 CT'S



3 Ø - 4 Wire, 3 CT'S and 3 PT'S



2) All Fuse Type: 0.5A, Class gG

## Wiring Guidelines

1. To prevent the risk of electric shock, power supply to the equipment must be kept OFF while doing the wiring arrangement.
2. Wiring shall be done strictly according to the terminal layout. Confirm that all connections are correct.
3. Use lugged terminals.
4. To reduce electromagnetic interference use of wires with adequate ratings and twists of the same in equal size shall be made with shortest connections.
5. Layout of connecting cables shall be away from any internal EMI source.
6. Cable used for connection to power source, must have a cross-section of 1mm<sup>2</sup> to 2.5mm<sup>2</sup>. These wires shall have current carrying capacity of 6A.
7. Copper cable should be used (Stranded or Single core cable).

## Safety Precautions

All safety related codifications, symbols and instructions that appear in this operating manual or on the equipment must be strictly followed to ensure the safety of the operating personnel as well as the instrument.

If the equipment is not used in a manner specified by the manufacturer it might impair the protection provided by the equipment.

- Do not use the equipment if there is any mechanical damage.
- Ensure that the equipment is supplied with correct voltage.

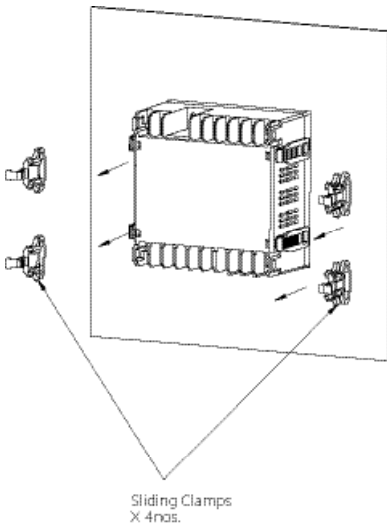


### CAUTION:

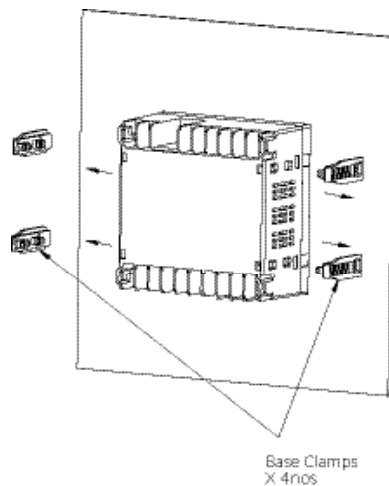
1. Read complete instructions prior to installation and operation of the unit.
2. Risk of electric shock.
3. The equipment in its installed state must not come in close proximity to any heating sources, oils, steam, caustic vapors or other unwanted process by products.

## For demounting the meter

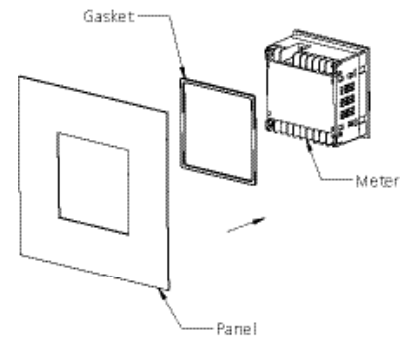
Pull the arm of the sliding clamps in outward direction (opposite to meter) and drag the sliding clamps away from the panel.



Dis-assemble the snap fitted base clamps from the meter using a screw-driver



Push the meter from back side out of the panel window and remove the gasket from the meter



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