



# SIEMENS 7KT0310 Multi Function Meter SMART 7KT Instruction Manual

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# SIEMENS

Assembly Instruction  
Multi-function Meter  
SMART 7KT  
7KT0310



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<https://new.siemens.com/my/en/products/energy/low-voltage/components/smart-7kt.html>



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



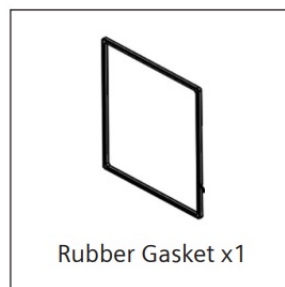
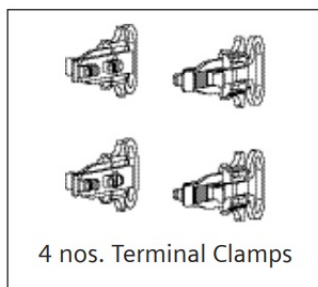
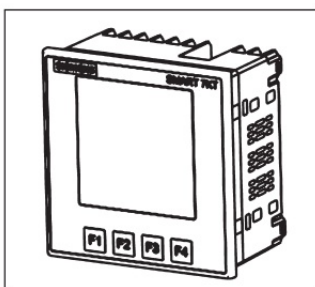
#### **DANGER**

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.

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Cross recessed Phillips head

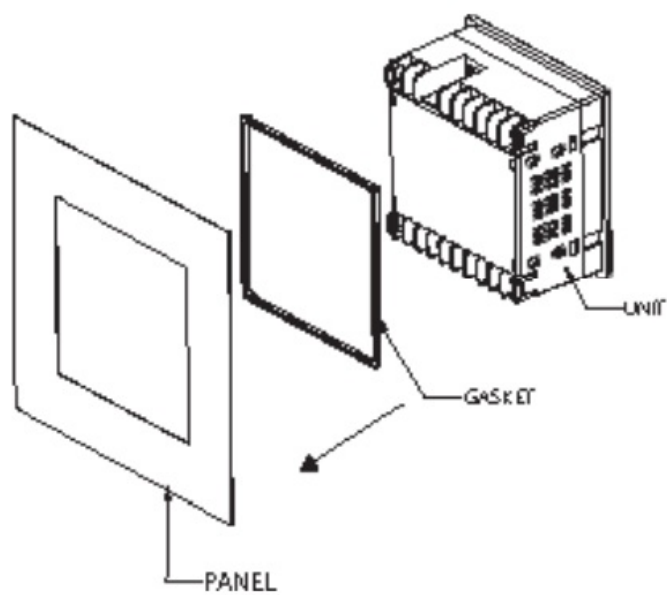
#### **Installation**

**For installing the meter**  
 Prepare the panel cutout with proper dimensions as shown below.

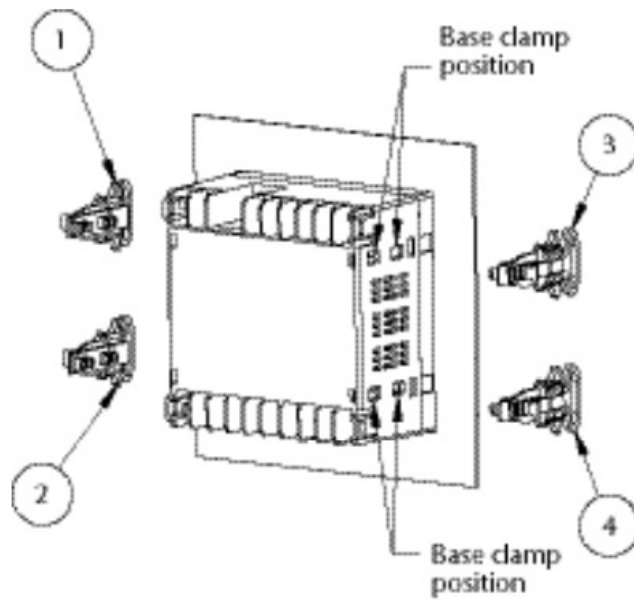
<div data-bbox="124 210 188 264"></div> <div data-bbox="196 235 496 302">FRONT PANEL DESCRIPTION</div>	<div data-bbox="523 235 893 275">OUTLINE Dimensions (in mm)</div>	<div data-bbox="1024 224 1457 291">PANEL CUTOUT Dimensions (in mm)</div>
<div data-bbox="145 349 475 678"></div>	<div data-bbox="539 591 981 801"></div>	<div data-bbox="1082 546 1396 846"></div>

**Installation (Continued)**

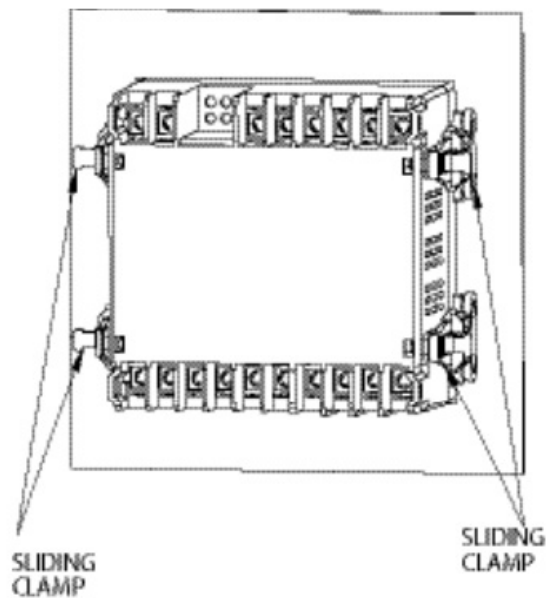
1. Insert unit into the panel



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



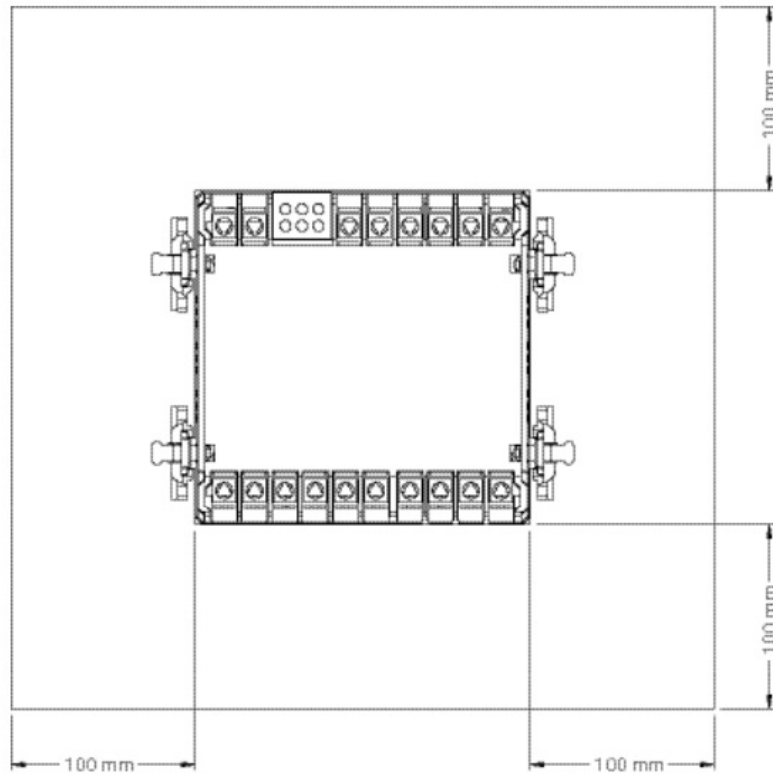
3. Push/Slide all 4 clamps towards the panel evenly till the lowest possible tooth of the clamp is engaged. Ensure the meter is properly tightened and it does not move.



**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.

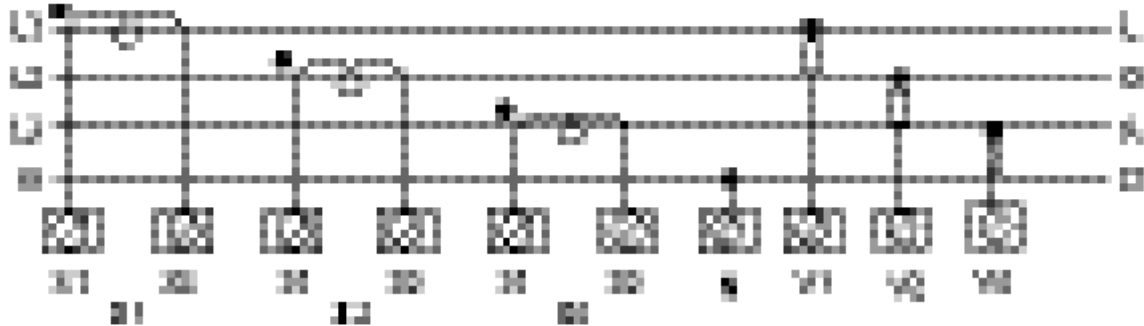
Installation of external fuse of rating 275V AC / 0.5Amp for electrical circuitry is highly recommended.

7. Remove the scratch-guard from the meter display during commissioning of the panel.

## Connection diagram



## CONNECTIONS DIAGRAM

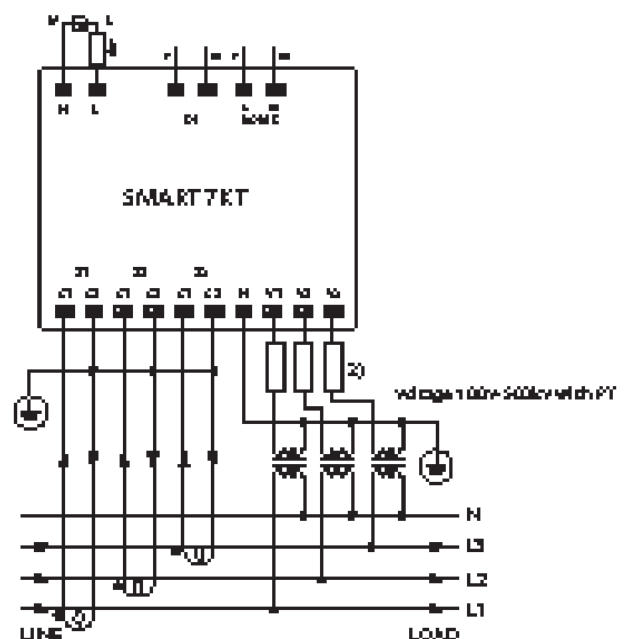
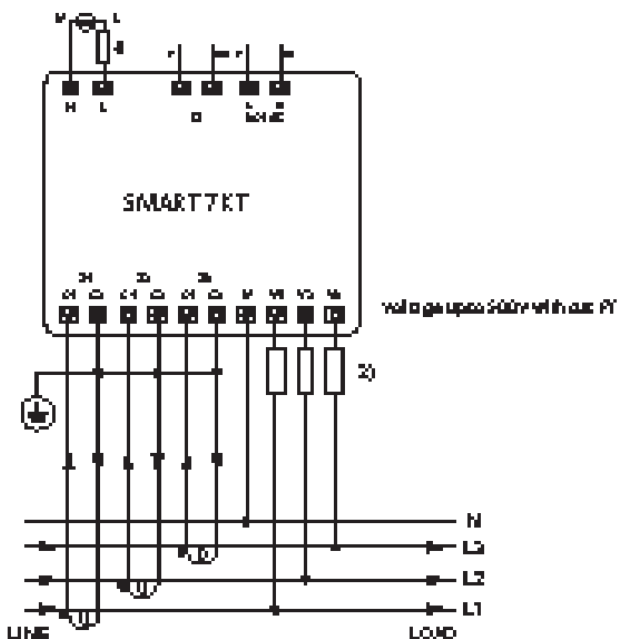


### Circuit Diagram

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

3 Ø - 4 Wire, 3 CT'S

3 Ø - 4 Wire, 3 CT'S and 3 PT'S



### 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  $1\text{mm}^2$  to  $2.5\text{mm}^2$  . 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.

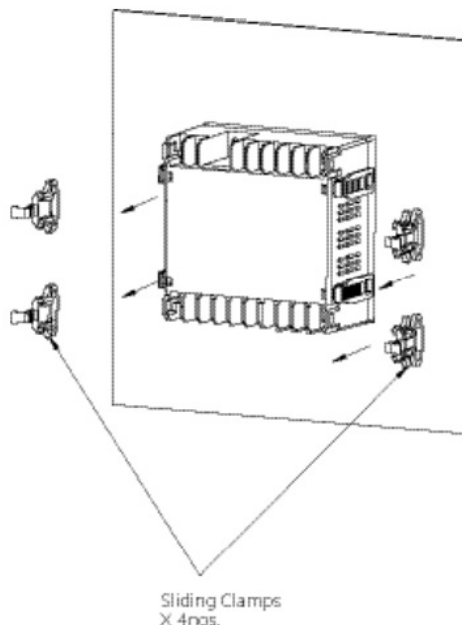
- Do not use the equipment if there is any mechanical damage.
- Ensure that the equipment is supplied with correct voltage.

### CAUTION:

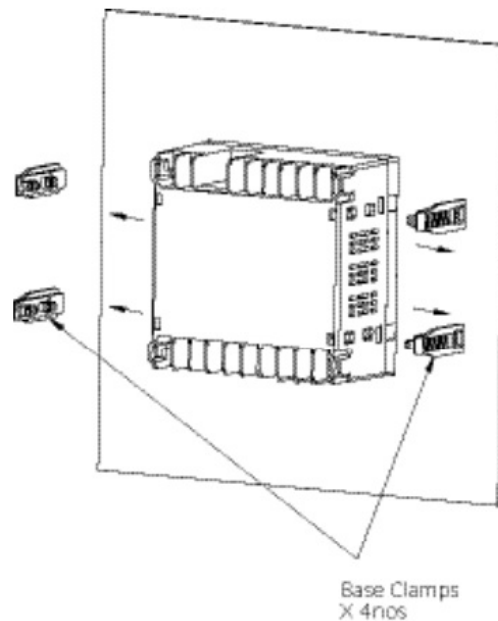
1. Read complete instructions prior to installation and operation of the unit.
2. Risk of electric shock.
3. The equipment in its installed state must not come in close proximity to any heating sources, oils, steam, caustic vapors or other unwanted process by products.

## For demounting the meter

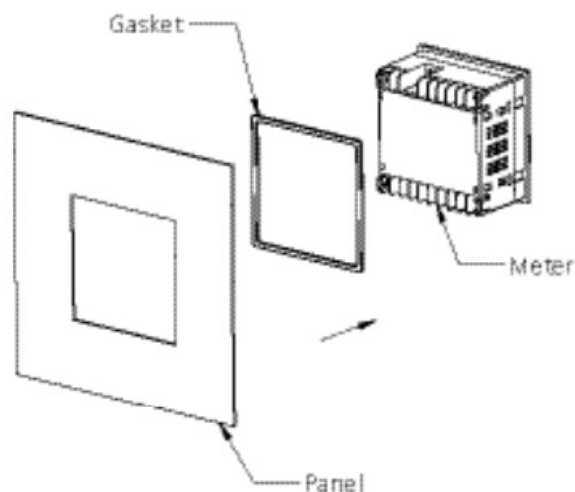
Pull the arm of the sliding clamps in outward direction (opposite to meter) and drag the sliding clamps away from the panel.



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



These instructions do not purport to cover all details or variations in equipment, or to provide for every possible contingency in connection with installation, operation, or maintenance. Should additional information be desired, please contact the local Siemens sales office. The contents of this instruction manual shall not become part of or modify any prior or existing agreement, commitment, or relationship. The sales contract contains the entire obligation of Siemens. The warranty contained in the contract between the parties is the sole warranty of Siemens. Any statements contained herein do not create new warranties or modify the existing warranty.

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46350 Petaling Jaya, Selangor  
Malaysia  
[sales.my@siemens.com](mailto:sales.my@siemens.com)  
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<https://support.industry.siemens.com/cs/products/7kt0310/smart-7kt-multi-function-meter?pid=1265988&mlfb=7KT0310&mfn=ps&lc=en-US>

## Documents / Resources

	<p><a href="#"><b>SIEMENS 7KT0310 Multi Function Meter SMART 7KT</b></a> [pdf] Instruction Manual 7KT0310 Multi Function Meter SMART 7KT, 7KT0310, Multi Function Meter SMART 7KT, Function Meter SMART 7KT, Meter SMART 7KT</p>
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