



IMPORTANT INFORMATION

This unit should be installed by a qualified competent person in accordance with all relevant legislation and regulations including building regulations and wiring regulations BS7671. If in doubt contact a qualified competent person.

- Turn off all power supplying this equipment before working on or inside the equipment.
- Always use a properly rated volt-sensing device to confirm the power is off.
- Replace all devices, doors and covers before turning on the power to this equipment.
- To avoid ingress of swarf and similar material, always remove gland plates to allow cutting/slotting for cable entries.

Failure to follow these instructions could result in serious injury or death.

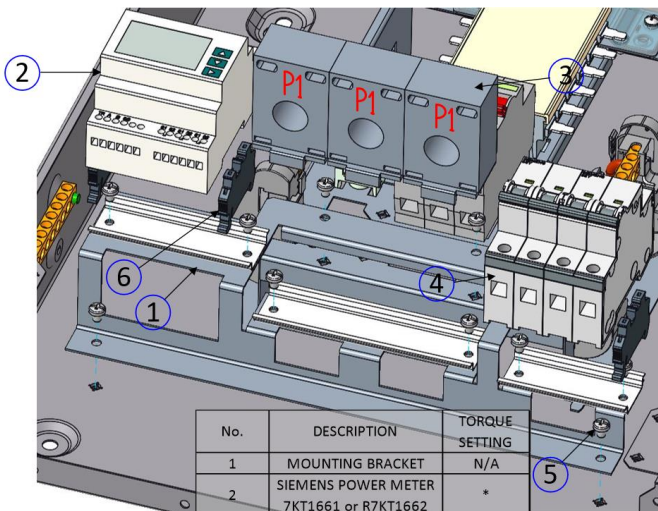
DO NOT USE POWER TOOL SCREWDRIVERS ON ELECTRICAL CONNECTIONS

Fitting & Wiring Instruction

Remove the incomer front plate and the gland plates from the bottom of the distribution board.

Remove the knockout on the front plate to allow the meter to be mounted, ensure there are no sharp edges after removal.

Position and mount the meter, CTs and fuse holders as shown in Fig. 1 and use the No. 10 x 1/4" screws to attach the mounting bracket to the back plate and the main mounting plate. Ensure the correct orientation of the CTs by referring to Fig. 1.



No.	DESCRIPTION	TORQUE SETTING
1	MOUNTING BRACKET	N/A
2	SIEMENS POWER METER 7KT1661 or R7KT1662	*
3	DIN MOUNTED CTS	*
4	MCB	*
5	No. 10 x 1/4" SCREW	N/A
6	END STOP	N/A

*SEE MANUFACTURER'S LEAFLET

Fig. 1

Wiring Instruction

When the meter support bracket is assembled and attached to the back plate, wire the meter to CTs and MCB by referring to the wiring diagram in Fig. 2.

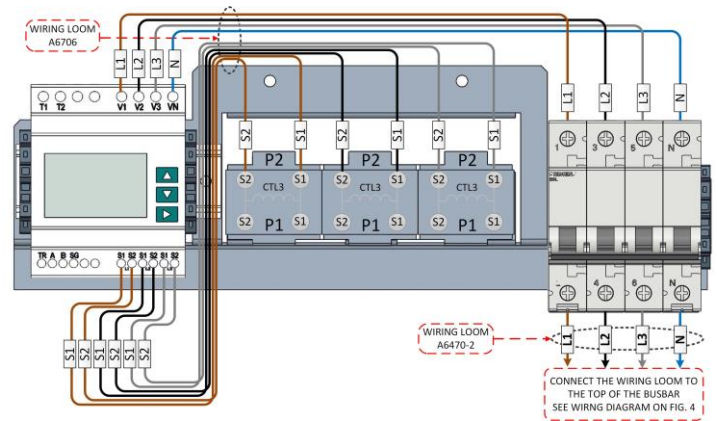
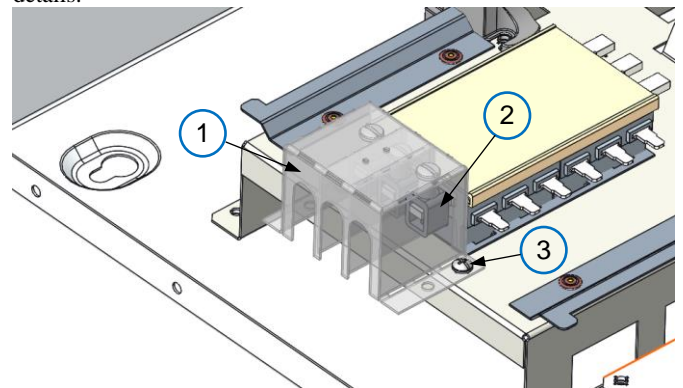


Fig. 2

Assemble and install the Terminal Shroud and top busbar screw terminals using 2 off No.10 x 9.5 mm screws. Refer to Fig. 3 for details.



No.	Description	Torque Setting
1	Terminal Shroud	N/A
2	Screw Terminals	2.3 Nm
3	No 10 x 9.5 mm Screw	N/A

Fig. 3





Connect the top of the busbar to the MCB by referring to the wiring diagram in Fig. 4. If the cables are too long, cut the cable to length ensuring the cable markers remain on both ends of the cable. Reconnect the main power supply by feeding them through the CTs. Secure the voltage supply loom with the adhesive pads.

Re-fitting Instruction

- Check the tightness of **all** connections, including factory-made connections.
- Affix supplied warning labels so they are clearly visible.
- Fit the terminal shroud to the top of the busbars over the screw terminals
- Refit all gland plates.

Meter setup Instruction

7KT1661 – Standard meter. The current transformer ratio has been factory set to 125/5 A

7KT1662 – MID meter. The current transformer ratio has been factory set to 125/5 A and cannot be changed.

NOTE!

Parts of the installation in which the meter kit is to be installed may remain live even when isolated. When working on unit isolate and lock off the MCB.

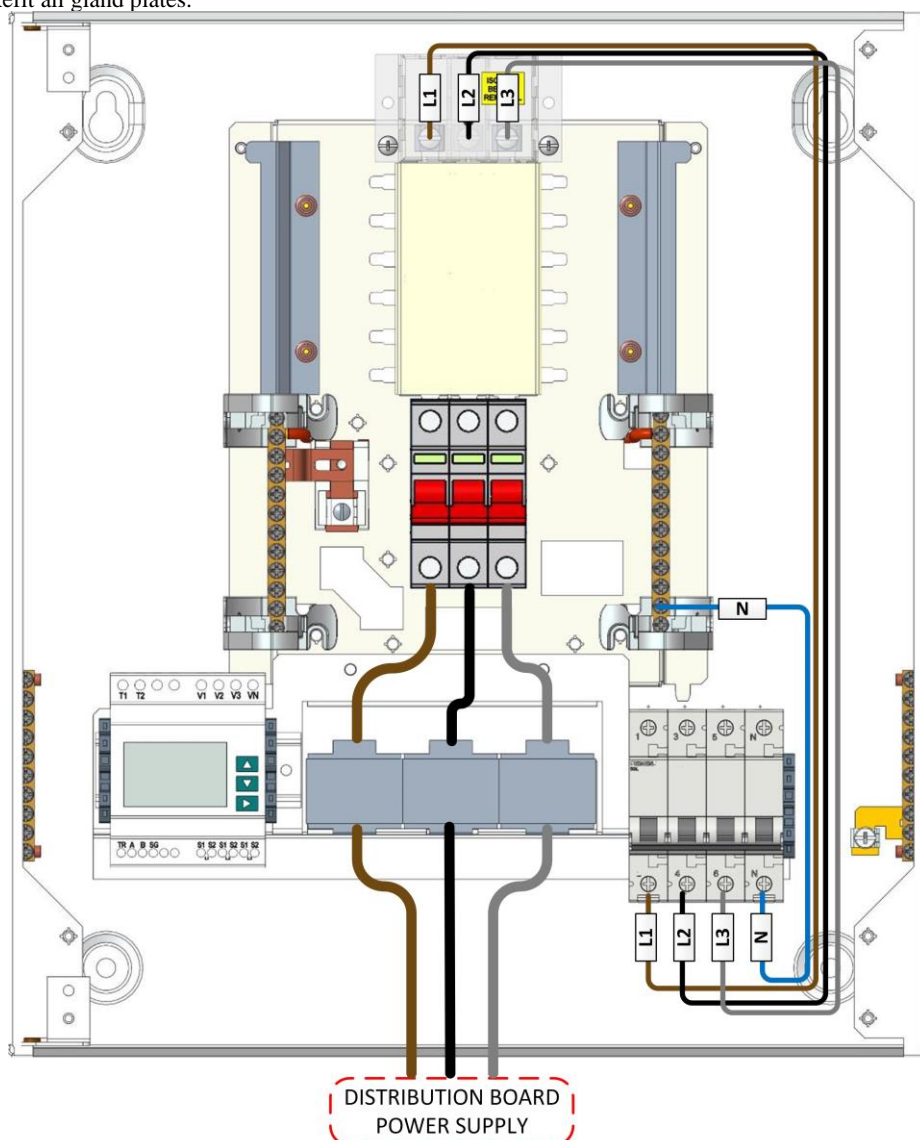


Fig. 4

Refer to the meter manual to set up the meter to the correct ratio. Follow the link below. (See pages 42 to 66 and in the Manual).

Manual 7KT PAC1600 energy meter - Online Support



<https://support.industry.siemens.com/cs/document/109759827/manual-7kt-pac1600-energy-meter?dti=0&lc=en-GB>

