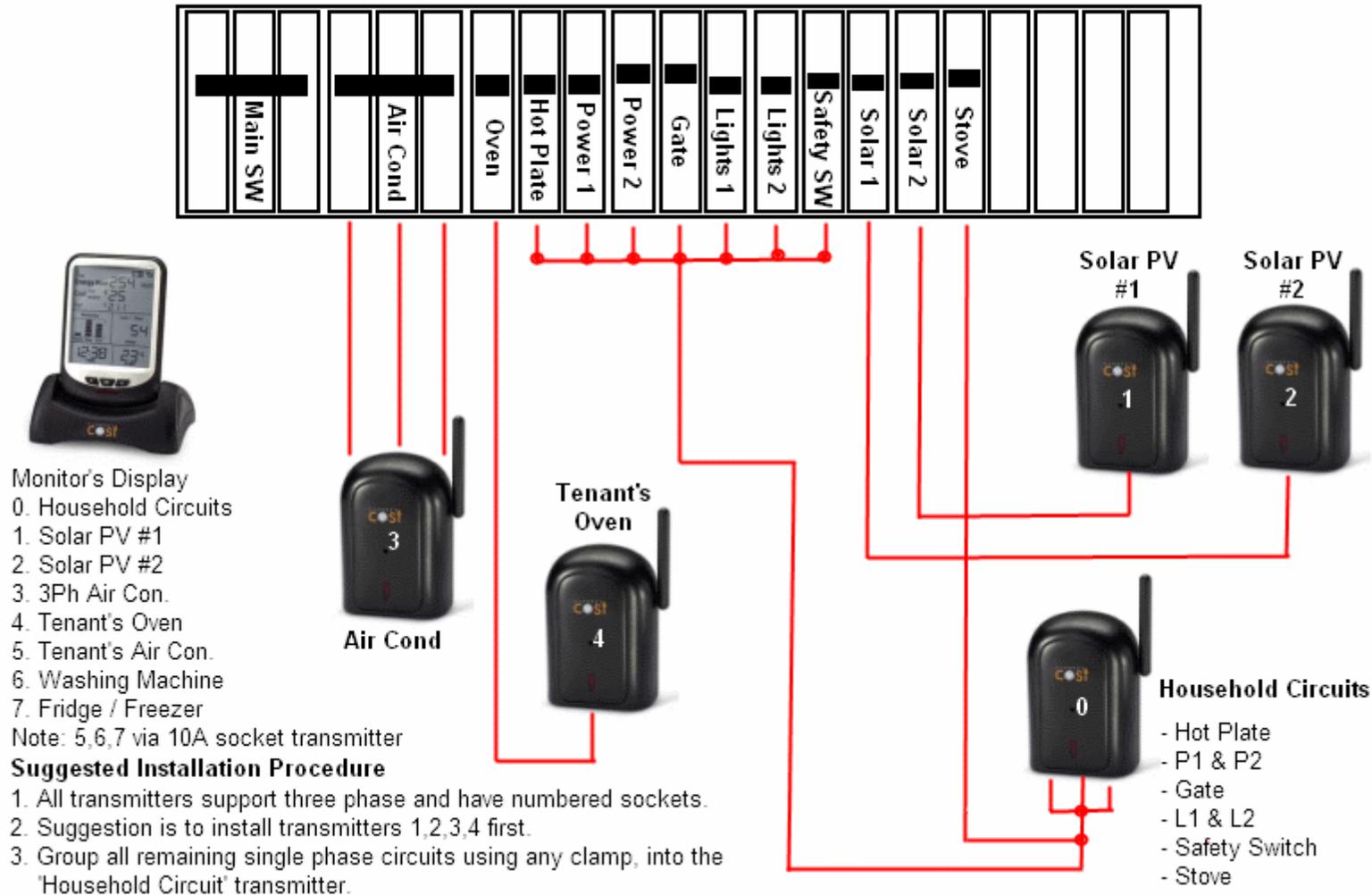


Multiple Circuit Electricity Monitoring



The above diagram easily shows how to install multiple circuit monitoring within a home.

All household circuits can be monitored, either via the current clamp style transmitters as shown above, or by using a plugin 10A socket transmitter [shown on the right], which is sited next to any appliance. In the above installation circuits 5,6,7 will each be monitored using a plugin 10A socket transmitter.



Note : There is no total household monitoring in this installation, as the client is uploading the monitoring data to an online web portal. Each of circuit's power data [except 5,6,7 as already included in P1/P2], will be fed into a virtual household total on the web portal. All circuits will show live, daily, monthly and annual data.

Suggested Installation Procedure

1. The current clamp transmitters have a velcro patch and a screw hole sited on the back of the transmitter. Due to the high heat experienced in an Aussie power box, it is suggested to mount the transmitter/s to the power board. In some cases site / stack the transmitters or place on a shelf in the power box or even on top the electricity meter. The secret here is to make sure a transmitter is not going to fall. Shown on the left is what the transmitters will look like, when mounted to the very spacious power board.
2. The process of clamping in this installation is going to result in quite a few cable clamp leads [nine in total]. 3 for the 3Ph Air Conditioner, 3 for the household circuit collective and 1 for each of the solar inverters and the tenants oven. All cables will need to be plugged into the correct port of the correct transmitter, as the above diagram details. It is therefore suggested to label each cable plug end, using a white sticker with the relevant circuit. This will make the whole process easier and faster, as all clamping can be done in one go. The power back board can then be closed and the marked circuit cable plug ends, connected into the correct transmitter and port.
3. The transmitter when sited at the front of the power board allows for the client to change the batteries in the transmitter. No client wants to call the electrician to change batteries! The 7 year batteries are D type and available from any supermarket. Easily accessed by removing the transmitter and the back of the battery case.