

## Energy audit Instrument list:

We use the following portable instruments for relevant operating parameters measurements during the field energy audit. Accurate measurements are very important to understand operations and estimate energy efficiency values.

S.No	Energy audit Instrument	Purpose of Measurement
1	Power Quality Manger/Three & single phase power Analyser for Balanced / Un-Balanced Load	To measure, record real time Power Consumption, analysis of electrical load, demand control, harmonics and transient. It is done without interrupting the connections.
2	Lux meter	To measure illumination level
3	Digital Multimeter	To measure voltage, Current and resistance.
4	Digital Tachometer&Stroboscope	To measure speed of rotation equipment.
5	Thermo-hygrometer	To measure air velocity & humidity
6	Anemometer	To measure air flow and velocity
7	Digital Temperature & Humidity monitor	To measure temperature and humidity
8	Digital Ultrasonic Flow Meter	To measure flow of water and other liquids through pipelines.
9	Portable Flue Gas Analyser	To measure oxygen and CO in ppm and temperature in flue gas of boilers, furnaces etc..
10	Temperature Indicators	To measure temperatures of gases/air, liquids etc.
11	Thermal Imager	To measure loss of energy from hot/cold insulated surfaces.
12	Digital Pressure Meter	To measure differential pressure.
13	Digital Infrared Thermometer	To measure surface temperature from distance
14	Surface Temp Meter	To measure radiation loss from hot/cold insulated surfaces.
15	Digital TDS meter	To measure total dissolved solids in water