

LAB NO: 9

ENERGY ANALYZER CONNECTION

Objective:

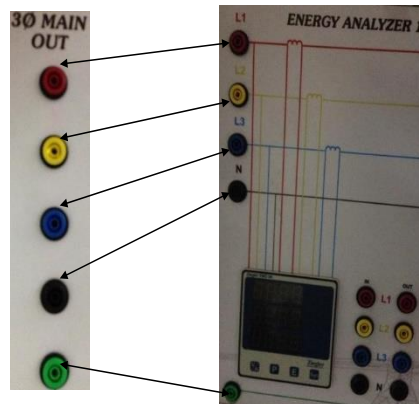
The main objective of this lab is to study and analyze energy analyzer connection.

Theory:

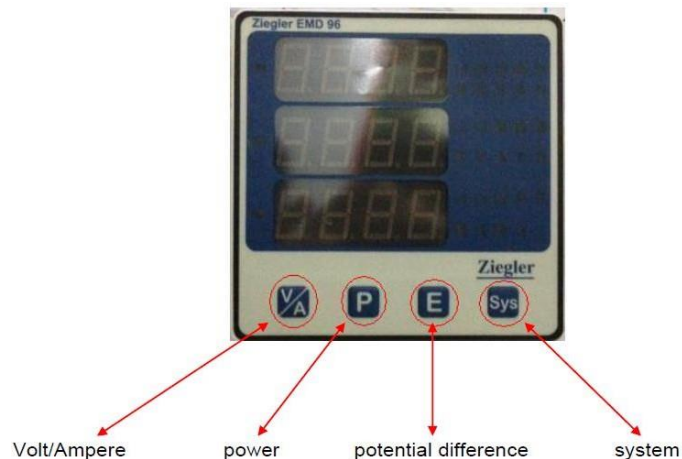
An instrument for measuring various parameters of an electrical power distribution system is often called an energy analyzer. An electrical energy analyzer might measure for single- and three-phase systems volts RMS, amps RMS, power factor, instantaneous power in watts (W), instantaneous volt-amperes (VA), reactive volt-amperes (VAR), frequency (Hz), average and maximum powers (W).

Experiments:

Use three phase main supply to online Energy Analyzer input.



After connecting the cable energy analyzer shows three phase reading.



POST LAB QUESTIONS:

Q1: Draw the connection diagram of energy analyzer with load connected.

Q2: what is the difference between average value and RMS value?

Teacher Remarks:

Obtained Marks: / 10