# METERS

1. **Which meter displays Maximum parameters?**

Ans: VIPS 80P-Power analyser displays maximum parameters. Voltage, current, frequency, energy power, maximum demand, harmonics making a total of 33 parameters.

2. **How many meters can be connected through communication RS485 at one time?**

Ans: 255

3. **Can the meter sustain Power Failure?**

Ans: Yes.

4. **How is data secured when power failure occurs?**

Ans: All data is stored in an EEprom inside the meter. When power failure occurs the meter, within milliseconds, transfer all data into the EEprom. When power is back, all data is available.

5. **How long will the data remain in meter after power failure?**

Ans: 10 years.

6. **What are the default settings on Modbus communication of meters?**

Ans: Modbus address = 1
Baud rate = 9600
Transmission mode = RTU
Parity = E

7. **What is use of THD display in meters?**

Ans: A) Harmonics analysis is done to obtain overall idea of distribution network status, origin of disturbance and to check validity of solution. These are used at supply source level, bus bars of main distribution switchboard, outgoing circuit of main distribution switchboard.

B) Harmonics causes heating and their life is reduced. Also it may interfere with operation of certain equipments.

C) Instantaneous values are used for analysis of disturbances linked to harmonics. Average values are used for Power Quality assessment.

D) The most significant harmonic orders in three-phase distribution networks are the odd orders (3, 5, 7, 9, 11, 13 ….). Triplen harmonics (order multiple of 3) are present only in three-phase, four-wire systems, when single phase loads are connected between phase and neutral.

E) Utilities are mainly focusing on low harmonic orders (5, 7, 11, and 13).Generally speaking, harmonic conditioning of the lowest orders (up to 13) is sufficient. More comprehensive conditioning takes into account harmonic orders up to 25.Harmonic amplitudes normally decrease as the frequency increases. Sufficiently accurate measurements are obtained by measuring harmonics up to order 30.

**8. What is the temperature range for meter?**

Ans: Operating temperature:-10 $^{0}$C to 55 $^{0}$C

Storage Temperature:-20 $^{0}$C to 70 $^{0}$C

**9. Does every meter have password protection?**

Ans: Veritek make meters are password protected.

**10. What is the IP class of the meter?**

Ans: Ingress protection class of any instrument is called as IP class. The IP class of our meters is IP52: Protected from limited dust ingress and protected from water spray less than 15 degrees.

http://www.dsmt.com/resources/ip-rating-chart for more about IP Classes.

**11. If a certain meter is programmed for a particular setting, can we program other meters similarly without operating the meter?**

Ans: No