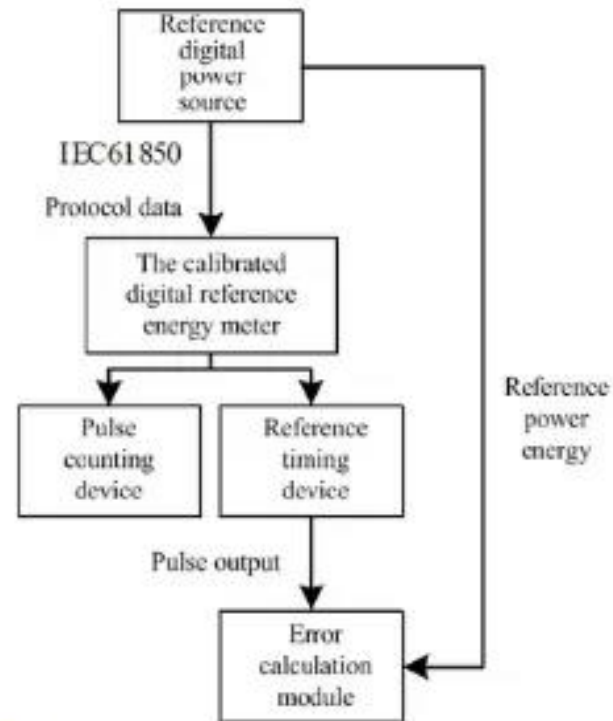
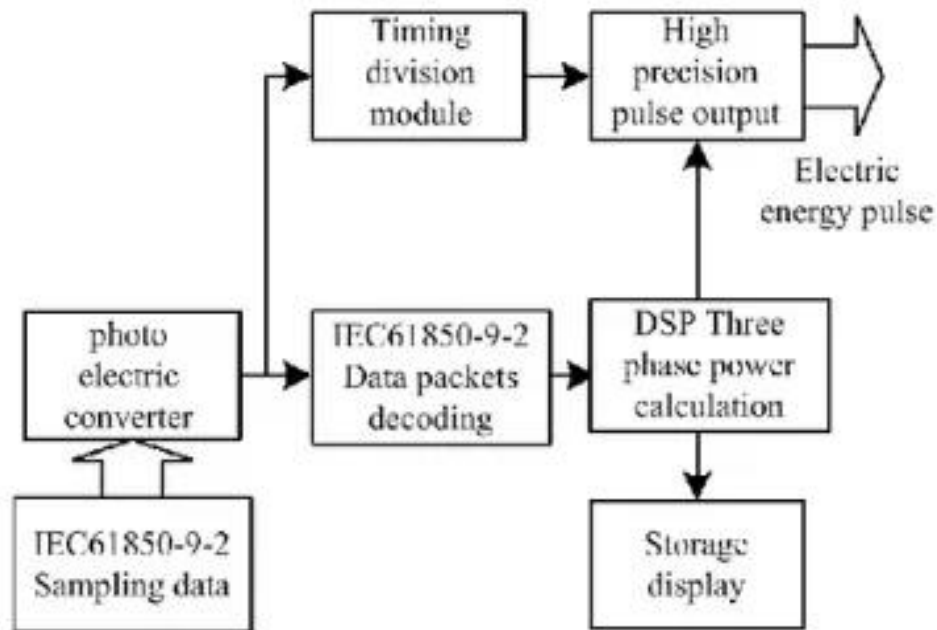


# Chapter-13

(Testing of Energy Meter)

Lecture-1

# What is Energy Meter Testing?



**Electrical 4 U**

## Necessity of testing of Induction Energy Meter:

- An electromagnetic compatible test is the most important test which finally ensures the accuracy of the energy meter. This test is fragmented in two parts- one is Emission tests, and the other is Immunity test. The electromagnetic interference problem is very common today.
- Those circuits in use today, can emit electromagnetic energy which can affect the performance and reliability of both its inner circuitry and the nearby equipment. EMI can travel through conduction or by radiation. When EMI goes through the wire or through cables, it is called conduction. When it travels through free space, it is called radiation..

## Equipment of testing of Induction Energy Meter:

Meter	Parameter	Instrument used
Ammeter	Current	PMMC, EMMC, MI, Hot Wire
Voltmeter	Voltage	PMMC, EMMC, MI, Hot Wire, Electrostatics Type
Power Factor Meter	Power Factor	Dynamometer Type, Moving Iron type
<b>Watt-hour Meter (Energy Meter)</b>	Energy	Induction Typ

