

## ABSTRACT

To measure power consumtion of PT.PLN customer, PT.PLN need restriction and measurement equipment (APP) for knowing electrical bill from customers. In medium voltages measurement need kWh meter as active energy recorded and kVARH meter as reactive energy recorded. PT.PLN also need measurement like ampere meter, volt meter, and maksimum power reader. For restriction consumtion power use rele. Base on the above one, for reached vision PT.PLN(PERSERO) is what growing up, leading and trusted. Countinously PT.PLN always find solution to increase company performance. One of them is changing electrical measure equipment like mechanical kWh meter to digital. Digital kWh meter can read all of electrical values like active energy (kWh), active energy reactive (kVARh), apparent energy (kVA), and magnitudes current (Ampere), Voltage (Volt), power factor ( $\cos\phi$ ), frequency (Hz) etc.

*Keyword : limiting device and gauges, meter kWh mechanic, meter kWh digital*