



Technology of Measurement...

defined

SMART Meter

Salient Features:-

- Available in class 1 accuracy as per IS: 16444:2015 Part 1 & Class 0.5s as per IS16444:2015 Part 2.
- Meter rating available in Single Phase 5-30A/10-60A, 3Ph 10-60A/10-100A/20-100A, -/5A LTCT operated & -/5A HTCT operated variants.
- MTCTE Certified.
- Internal latching relays for Demand & Load Control.
- Ideal for Remote Data Monitoring & Control, AMI/Smart grid.
- Suitable for Net Metering.
- Two way communication between Meters & Server for cellular communication and DCU & Server for LPRF communication.
- Time of Day feature to monitor energy consumed in various time of day for efficient load management.
- Tamper event detection, recording and reporting.
- Power event alarm such as Power Outage, Low & High voltage.
- Over the air configuration of programming parameters like TOD, Billing date & time, Integration Period configuration etc. as per IS 15959.



For more details scan the code

Communication Ports:

- Optical Port for local data download with sealing facility.
- Cellular communication supports DLMS as per IS 15959 with latest amendments.
- Low Power RF on 6LowPAN Mesh technology.
- Cellular communication supports 4G & latest NB-IOT technology.
- Cellular & RF cards are modular based with separate sealing provision.
- Optional 4g with Bluetooth communication

Technical Specification:

- BIS marked as per IS 16444 standard.
- Standards Applicable: IS 16444, IS 15884, IS 15959, IS 14697/IS 13779.
- Reference Voltage: 240V or 63.5V as per type of meter.
- Power Consumption: As per IS 16444.
- Working Voltage Range: -40% to 20% of Vref.
- Frequency: 50Hz \pm 5%.
- Starting Current: 0.2% for direct current & 0.1% for CT/CTPT Operated Meters of basic current at reference voltage & unity PF.
- Power Factor Range: Zero Lag – Unity – Zero Lead.
- Internal Clock Accuracy: Better than defined in IS.
- Impulse Surge Withstand: as per Relevant standard.
- Temperature Range: as per Relevant standard.



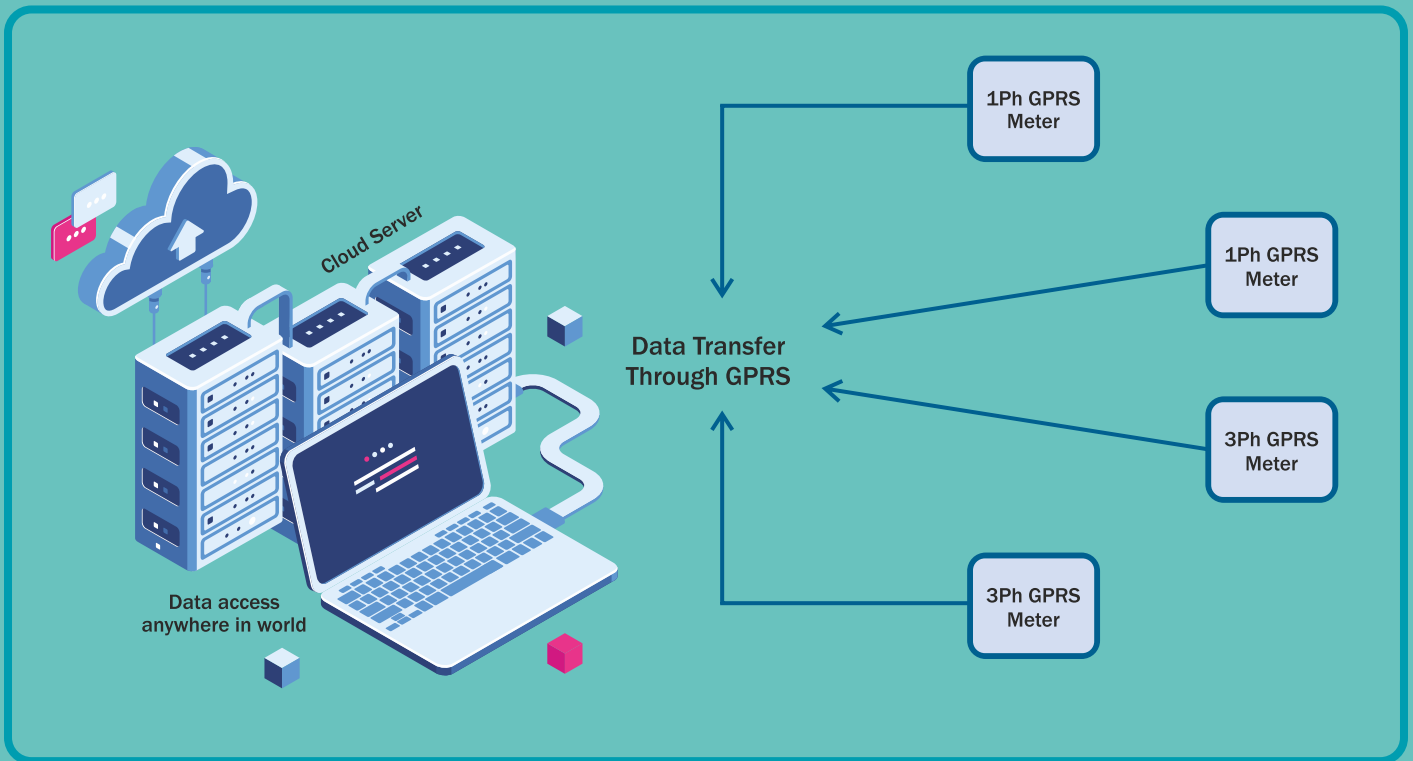
ISO-27001:2005



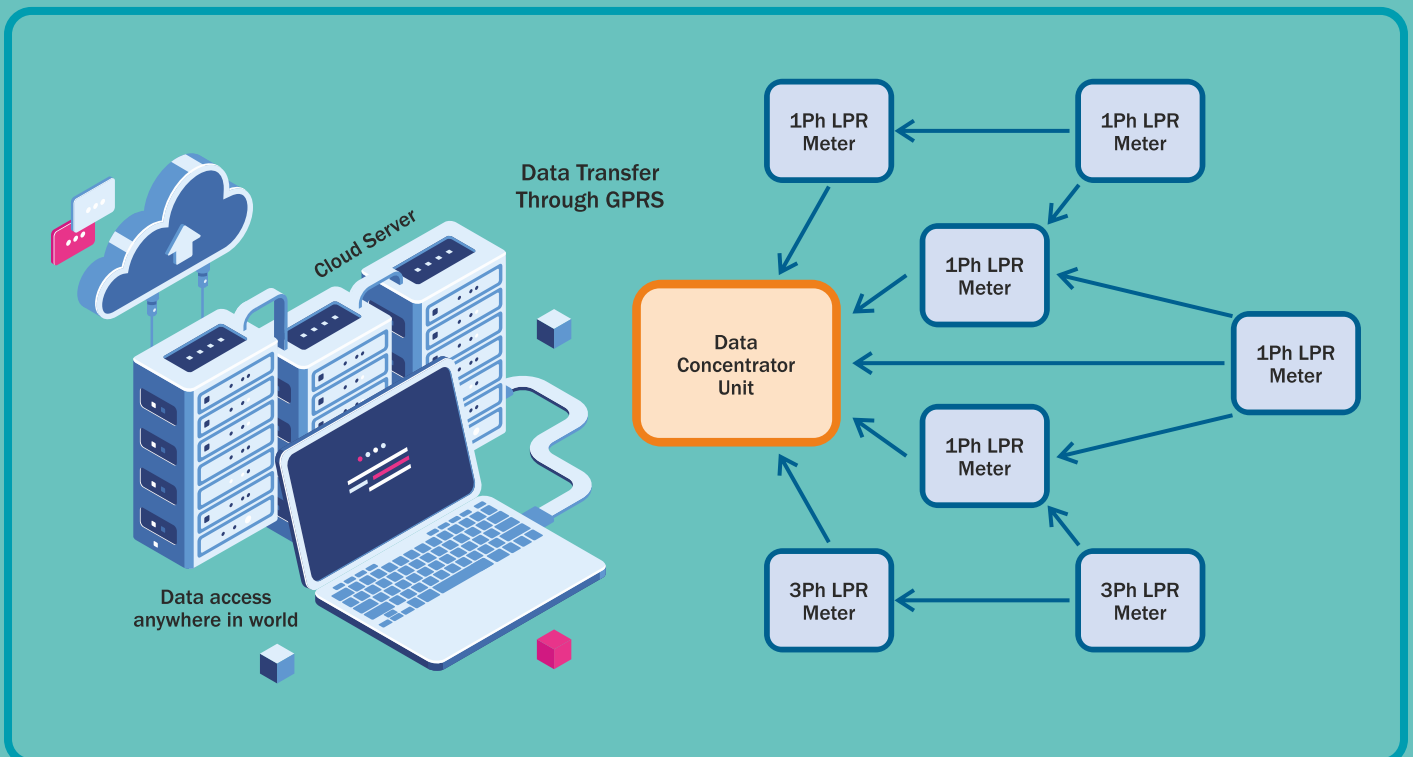
ISO-9001:2008
ISO-14000:2004



Architecture for GPRS based Solution



Architecture for RF based Solution



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