

# Advanced Revenue Meter Cutting Edge Power Quality Analyzer Transient Recorder

## ENERGY METER

- Energy Meter Accuracy IEC 62053-22 Class 0.2S
- Unique anti-vandalism and anti-tampering features
- Built-in self-accuracy test
- RTC with battery backup
- Transformer and line losses compensation
- TOU up to 8 tariffs and 4 seasons

## POWER QUALITY ANALYZER

- 3 Voltage and 4 Current inputs
- Power Quality according to IEC 61000-4-30 Class A
- IEC 61000-4-7: Harmonics & interharmonics up to the 127<sup>th</sup>
- IEC 61000-4-15: Flicker measurement
- Waveform logging
- Complete Power Quality Reports per EN50160
- Sampling rate: up to 1024 s/c



expertmeter™

Field installable hot swap optional modules

## FAULT RECORDER

- Logging memory 8MB built in, up to 1 GB optional
- GPS Time synchronization
- Four measured and recorded currents up to 50 A (10In)
- Chargeable Back-up battery - 2.5 hours
- Auxiliary power supply option
- Sequence of events with 1 ms accuracy

## TRANSIENT DETECTOR

- Detects transient over-voltages as short as 17  $\mu$ sec
- Transient measured relative to ground - Special ground
- Measures up to 2 kV pulses

## ISOLATION:

- High Voltage Inputs - 6 kV Impulse, 4 kVAC
- I/O and ComPorts - 4 kVAC

## INPUT / OUTPUT (I/O) CAPABILITIES:

- Built-in 4 DI 1ms sampling
- Optional and field installable (hot swapping) up to 3 modules
  - 2 DI / 2 DO
  - Others in future

## COMMUNICATION PORTS

- Built-in IR port
- Optional and field installable (hot swapping) up to 3 modules:
  - Ethernet, USB and RS-232/RS-485
  - GSM/GPRS (Class 10)
  - IRIG-B and RS-232/RS-485
  - Others in future

## COMMUNICATION PROTOCOLS:

- Master/Slave MODBUS Binary & ASCII
- MODBUS RTU over IP
- DNP 3.0 over IP
- TCP/IP
- SMTP (outgoing mail)
- Web-server