

Advanced Meter for LV

NJ Advanced meter for low voltage

This meter can provide with the easy way to directly access & control for the residential & commercial AMI applications

Key Benefits

- kWh/kvarh/kVAh Metering
 - TOU/ CPP/RTP Metering
 - Load Profile
 - Measurement Profile
 - RS-485 Daisy-Chain Port
 - DLMS/COSEM Protocol
 - Power Quality Monitoring
 - Remote Disconnect/Reconnect
 - Outdoor application(IP54)
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- **Easy to Direct Access**

With the adoption of IEC 62056 and DLMS/COSEM, the meter provides the easy way to directly access to metering data and control the power supply to customer for AMR & AMI applications
 - **TOU/ CPP/RTP Metering**

Adopting an integrated solution, the meter can provide the optimal TOU / CPP / RTP metering capabilities for residential & commercial applications:
- 4 tariff metering & 4 self reads: energy, demand & PF
- Daily metering-data profile
 - **Various & Versatile Measurement**

With the four-quadrant & bi-directional metering and measurement capabilities, the meter can measure and record the accumulated and interval consumed energy values of active, reactive and apparent power:
- Up to 8-metering recording channels
- Max. demand(kW, kVA) with time stamp
- User-define PF calculation
 - **Load Profile Capacity**

For an interval metering, it measures and records an user-defined interval data into a non-volatile memory:
- Up to 8-channel for interval data metering
- Up to 6,240-records for 4-channel/15-minutes
 - **Measurement Profile**

The meter measure and calculate the average value of voltage, ampere, and THD:
- Up to 3-channel recording available
- Up to 288-records(3-days)
 - **Communications**

With RS-485 communication port, the meter can be read and programmed locally and remotely up to 38,400-bps. For the detachable modem, the meter supplies an operating power for modem like PLC and RF:
- IEC 62056 DLMS protocol
- DC 12V, 2.5VA
 - **Instrumentation & PQ**

With the meter software, the technicians can test and verify the installation and operation of the meter:
- Per-phase measuring : power, voltage, ampere, angle
It can provide with the PQ monitoring capabilities:
- Voltage-THD, Sag & Swell
 - **Self Diagnosis**

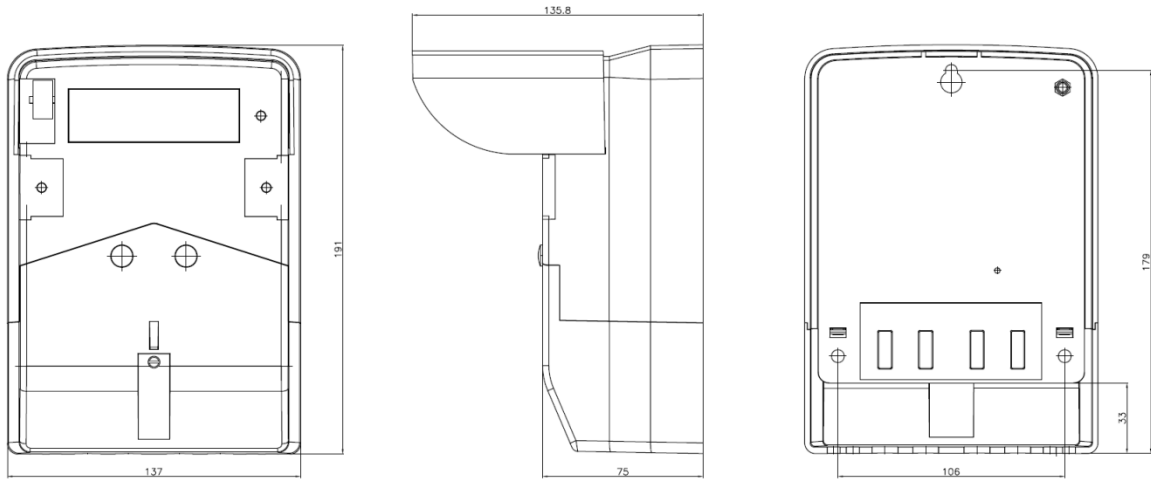
To ensure the reliable meter operation, the meter detects and indicates the faulty conditions:
- Under voltage, reverse flow, memory & battery error
To avoid the tampering & theft operation, the meter detects and indicates the faulty conditions:
- Magnetic force, abnormal temperature, and cover-open
 - **Remote Disconnect/Reconnect**

The meter provides the remote disconnect/reconnect capability with the built-in relay:
- Internal Latch Relay : 50A (max. 90A)
- Electrical life : max. 5,500-OPS
The meter also provides the current-limiting capability for the demand control and overload control with the user-defined conditions.
 - **Housing**
 - Non-flammable polycarbonate
 - IP 54 protection against dust and water(outdoor type)



For Residential & Commercial Customers in the Smart Grid Market, the NJ Advanced meter for LV is waiting for your best choice...

◆ Dimensions :



◆ Specifications and Technical Data :

↘ Voltage	220V (Dynamic operating range=100~264V)
↘ Current	5(50)A
↘ Frequency	50/60 Hz ($\pm 5\%$ tolerances)
↘ Temperature	-40°C to +60 °C (operating range)
↘ Humidity	0 to 100% (non-condensing)
↘ Power consumption	Less than 2W
↘ Accuracy	With full load and light load $\pm 1.0\%$ for kWh With full load and light load $\pm 2.0\%$ for kvarh With full load and light load $\pm 1.0\%$ for kVAh
↘ Starting current	Conforms to the IEC requirements (less than 0.004Ib)
↘ Creep	No more than 1 pulse per measured quantity
↘ Startup delay	Less than 3 seconds from power application to pulse accumulation
↘ Clock	Built-in real time clock with a backup battery (3.6V/1,200mAh)
↘ Communication	Remote communication up to 38,400 baud
↘ Standards	IEC 62052-11 <i>Electricity metering equipment (a.c.)-General requirements, tests and test conditions</i> -Part 11: Metering equipment IEC 62053-21 <i>Electricity metering equipment a.c.)-Particular requirements</i> -Part 21: Static meters for active energy (classes 1 and 2) IEC 62053-23 <i>Electricity metering equipment a.c.)-Particular requirements</i> -Part 23: Static meters for reactive energy (classes 2 and 3) IEC 62056-21 <i>Electricity metering-Data exchange for meter reading, tariff and load control</i> -Part 21: Direct local exchange IEC 62056-42 <i>Physical layer services and procedures for connection oriented asynchronous data exchange</i> IEC 62056-46 <i>Data Link Layer using HDLC-protocol</i> IEC 62056-53 <i>COSEM Application Layer</i> IEC 62056-61 <i>OBIS Object Identification System</i> IEC 62056-62 <i>Interface Objects</i>



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