

# Advanced Meter for HV

## NJ Advanced meter for high voltage

*This meter can provide the advanced and versatile metering solutions for the commercial & industrial AMR & AMI*

### Key Benefits

- Quadrant Measurement
- Time-of-Use Metering
- Load Profile Capability
- Remote Communication
- External Output



### ➤ Quadrant Measurement

With the user-configurable measurement, the meter can measure and record energy and demand based on the vector-sum

Also, the meter can provide with the unidirectional and bidirectional metering capabilities:

- Up to 9-metering channel
- Q1/2/3/4 kW(h), kvar(h), & kVA(h)
- Unidirectional or bidirectional metering
- User-defined calculation of PF (optional)

### ➤ Time-of-Use Meter

By adopting a large-scale memory, this meters provides with the extended TOU metering alternatives for the heavy load customers such as commercial & industrial applications:

- Up to 4-tariff metering
- Up to 6-self reads(energy, demand, & PF)
- Support daily/weekly/holiday profile
- Support TOU pending program

### ➤ Load Profile Capacity

For an interval metering, the meter measures and records the LP interval data into a non-volatile memory:

- Up to 4-channel (max. 9-channel) with time stamp
- Up to 90-days for 4-channel/15-minutes
- Status event of an interval data
- : Power failure & restoration, manual demand-reset, time-adjustment, season-change, program-change, battery replacement, & potential error

### ➤ Communications

With an IEC 62053-21 compatible optical port, the meter can be programmed and read at an installation site

- Baud rate=1200 to 19200 can be selectable

For a remote communication, the meter provides a Duplex-SC interface with an external PSTN and CDMA modem

- Baud rate=1200 to 19200 can be selectable
- Modem initialization string can be configurable

### ➤ Site-Watch

With the meter field software and the LCD display items in the diagnostic display mode, the technicians can test and verify the installation and operation of the meter:

- Per phase measurement : kW, kvar, kVA,  $V_{rms}$ ,  $I_{rms}$ , Angle
- Graphical software tool : Vector diagram

### ➤ Self Diagnosis & Event Log

To ensure the reliable meter operation, the meter detects and indicates the faulty conditions. Also, the meter records the event log into a non-volatile memory:

- Up to 15-records per each event
- Up to 6 events
- : Time-adjustment, DR, SR, MDR, error, & power failure & restoration, DR, SR, MDR, potential error per phase, reverse flow, wiring error

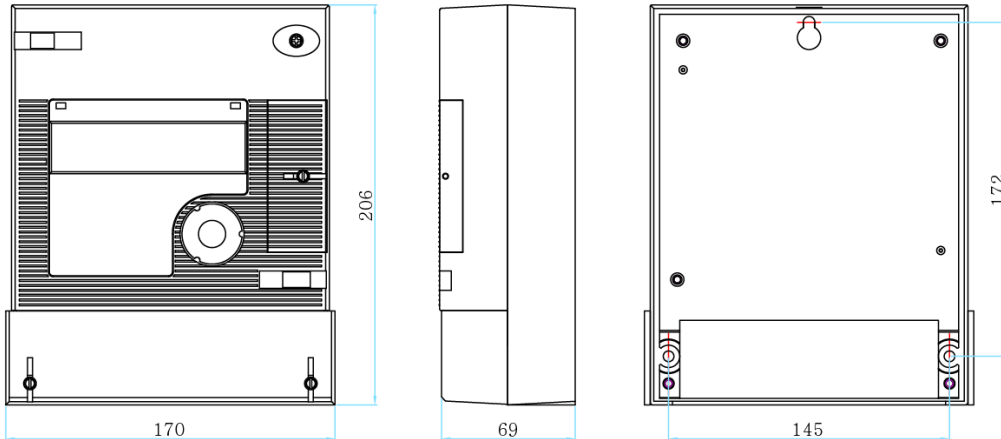
### ➤ External Output

The meter provides with 3-programmable outputs for a user-specific application such as a load control and a time-switch:

- Up to 3-output (open-collector)
- User-configurable output
- : kWh/kvarh pulse, time-switch, load control

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

## ◆ Dimensions :



## ◆ Specifications and Technical Data :

➢ Voltage	63.5/110V, 110/190V, 220/380V
➢ Current	5A
➢ Frequency	50Hz/60 Hz (±5% tolerances)
➢ Temperature	-25°C to +55 °C (operating range)
➢ Humidity	0 to 100% (non-condensing)
➢ Power consumption	Less than 2W
➢ Accuracy	With full load and light load ±0.5% for kWh With full load and light load ±2.0% for kvarh
➢ Starting current	Conforms to the IEC requirements (less than 0.002In)
➢ 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 9600 baud (upgradeable)
➢ 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 62053-22 <i>Electricity metering equipment a.c.-Particular requirements</i> -Part 22: Static meters for active energy (classes 0.2S and 0.5S) IEC 62053-23 <i>Electricity metering equipment a.c.-Particular requirements</i> -Part 23: Static meters for reactive energy (classes 2 and 3) IEC 62053 <i>Electricity metering - Data exchange for meter reading, tariff and load control</i>



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