



## **Easy to Direct Access**

With the adoption of IEC62056 and DLMS, this meter provides the easy way to directly access to the metering data for AMR and AMI applications

#### Time-of-Use Meter

Adopting an integrated solution, the meter provides an optimal TOU metering alternatives for medium load customers of residential & commercial applications:

- Up to 4-tariffmetering
- Up to 4-selfreads: energy, demand & PF
- Support TOU pending program

#### Various & Versatile Measurement

With four-quadrant, vector-summed, & bi-directional metering and measurement capabilities, the meter can measure and record an accumulated & interval energy consumption of active, reactive and apparent power:

- Up to 8-metering recording channels
- User-definedkW(h), kvar(h), kVA(h)
- Max.demand Cum. demand with time stamp
- User-define PF calculation

## **Load Profile Capacity**

For the interval metering, the meter measures and records the user-defined interval data in to the non-volatilememory:

- -Up to 8-channel for interval data metering
- -Up to 6, 240-records for 4-channel/15-minutes
- -Status event of interval data :powerfail, DR, programupdate, TOUupdate, abnormal wiring, & tariff of interval data

# Sensway SE5 series

The SE5 is an enhanced upgrade of the se5 meter, built with a higher class accuracy of 0.5S, catering to the high-end markets. The SE5 is a high-precision meter created for generation and transmission applications, as well as for revenue metering at high-end consumer facilities. Select and use the precision option of the solid-core current transformer and the split-type current transformer of the line card of the current transformer connection.

# **Key Benefits**

- · Time-of-Use (TOU) Metering
- · RS-485 Daisy-Chain Port
- kWh/kvarh/kVAhMetering
- · DLMS Protocol
- · Measurement Profiling
- · Power Quality MonitoringKey

#### 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
- DC12V, 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

#### **External Output**

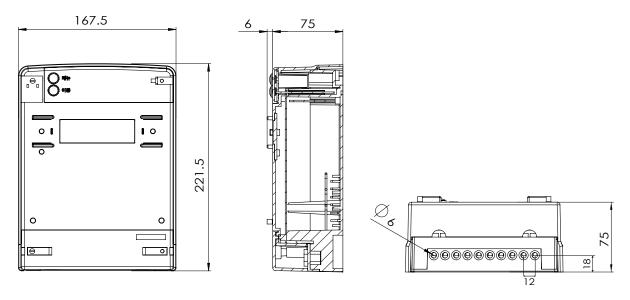
The meter provides an external output which is an open-collector type and is programmable by user:

- Time Switch, remote load control, current limiting





**Dimensions** (Unite: mm)



# Specifications and Technical Data: JND3405DR-05S

Voltage	3*220/380V (10% of nominal voltage)	
Current	2.5(5)A	
Frequency	50/60 Hz (5% tolerances)	
Temperature	-40 oC to +60 oC (operating range)	
Humidity	0 to 95% (non-condensing)	
Power consumption	Less than 2W	
Accuracy	With full load and light load 1.0% for kWh	
	With full load and light load 2.0% for kvarh	
	With full load and light load 1.0% for kVAh	
Starting current	Conforms to the IEC requirements (less than 0.002ln)	
Constant	10,000 pulse/kWh 10,000 pulse/kvarh 10,000 pulse/kVAh	
Startup delay	Less than 5 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 Electricity metering equipment (a.c.)-General requirements, tests and test conditions	
	- Part 11: Metering equipment	
	IEC 62053-21 Electricity metering equipment a.c.)-Particular requirements	
	- Part 21: Static meters for active energy (classes 1 and 2)	
	IEC 62053-23 Electricity metering equipment a.c.)-Particular requirements	
	- Part 23: Static meters for reactive energy )classes 2 and 3)	
	IEC 62056-21 Electricity metering-Data exchange for meter reading, tariff and load control	
	- Part 21: Direct local exchange	
	IEC 62056-42 Physical layer services and procedures for connection oriented asynchronous data exchange	
	IEC 62056-46 Data Link Layer using HDLC-protocol	
	IEC 62056-53 COSEM Application Layer	
	IEC 62056-61 OBIS Object Identification System	
	IEC 62056-62 Interface ObjectsSpecifications	

