

## DS(T)SI39 Three-phase PLC Electric Energy Meter

### Summary

DS(T)SI39 three-phase PLC electric energy meter is a new intelligent watt-hour meter, which is developed and manufactured by adopting the current international advanced microprocessor as the core, combined with the functions of carrier communication and relay control; as well as adopting ADE7752 chip for power measurement. The meter accords with IEC61036. It has the characteristics of high integration level, stable and reliable, high accuracy, low power consumption, LCD display, abundant communication interface and convenience for installation, etc.



### Main functions

The function of collect pulse. Bi-directionally measure active energy and accumulate kW in one direction against wrong connection. Bi-communication. It can communicate from meter to concentrator, as well as from meter to meter.

The function of self-checking through software.

It can communicate with the meter from the infrared port.

LCD display.

With backlight when communicate from the infrared for 20 seconds.

The function of freezing the energy consumption in accordance with the requirement.

The function of controlling the on and off of the meter.

The function of alarming when the power over-exceeds the max. power which has been set.

It can record the date and the time of the opening of the cover.

Expansion design. The design of the circuit and software with other ports of the other functions above.

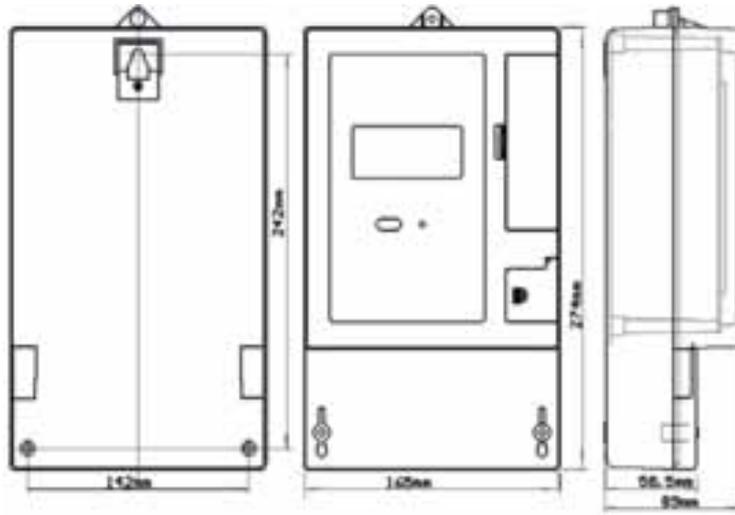
### Main technical parameters

Item	Technical requirement
Accuracy error	Meet the requirement of IEC1036-1996 & IEC62053
Reference frequency	50Hz
Measurement range	000000.00 – 999999.99kWh
Clock error	≤0.5s/day
Carrier communication	Expand frequency series is 15 bits, center frequency is 120K, band width is 15KHz
Power consumption	less than 0.5W in static condition, less than 3W in carrier transmission.
MTBF	≥5 × 10 <sup>4</sup> h
Outline dimension	L*W*H: 242 mm × 165 mm × 85mm
Power voltage	220V ± 20%
Pulse output	80ms ± 20%(width), external supply of 5-24V DC
Working ambient temperature	-20°C ~ +50°C
Ambient humidity	≤75%
Storage temperature	-25°C ~ +75°C

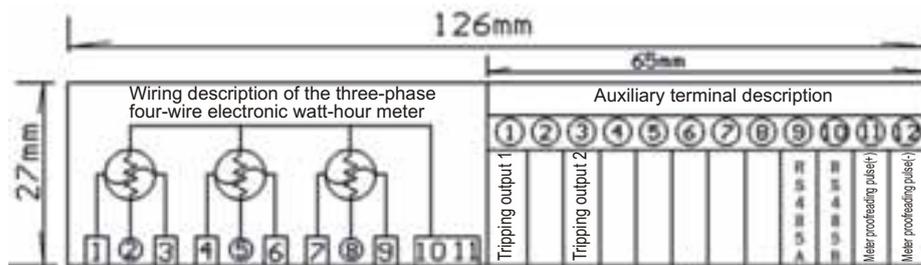
## Technical specification

Model	Number of phase	Accuracy class	Rated voltage(V)	constant(imp/kWh)	Rated current(A)
DS(T)SI39	Three phase	1.0	220/380	/	1.5(6)-30(100)

## Outline dimension and Wiring diagram



Outline dimension



Wiring diagram