WIFI

Three Phase
Smart Meter

USER MANUAL

Ver.003006

1. General Description

DTS726D-7P WIFI type multi-function smart energy meter is designed to measure three phase four wire AC active energy and variable parameter. The meter have WIFI communication, it can use APP for remote reading and control on/off. All of its functions comply with the relative technical requirement for class 1 three phase watt hour meter in IEC62053-21 and its data communication rules obey the requirement WIFI 802.11b/g/n.It is a long life meter with the advantage of high stability, high over load capability, low power loss and small volume.

The meter should be installed in suitable environment with ambient temperature range between $-25^{\circ}\text{C} \sim +55^{\circ}\text{C}$, the relative humidity less than 75% and temperature limits between and $40^{\circ}\text{C} \sim +70^{\circ}\text{C}$.

The meter is manufactured complying with international standard IEC62052-11 on "Electricity metering equipment (AC) General requirements tests and test conditions" and IEC62053-21 on "Static meters for active energy (classes 1 and 2)".

2.Specification and Technical Parameters

2.1Specification

Meter type	DTS726D-7P WIFI
Rate frequency	50 or 60 Hz
Rated current	1.5(6)A, 5A/CT, 5(60)A, 10(80)A
Rate voltage	3x120/208V, 3x220/380V, 3x230/400V, 3x240/415V
Normal voltage range	90%Un~110%Un
Limits voltage range	70%Un~120%Un
kWh Accuracy	Class 1
R.M.S accuracy	Class 0.5
Pulse constant	See meter
WIFI	802.11b/g/n, only support 2.4GHz network, not support 5GHz network

2.2 Technical Parameters 2.2.1 Basic tolerance

Load Current		Power factor(COS φ)	Basic error(%)
Direct connection	CT connection		
0.05Ib≤I<0.1Ib	0.02Ib≤I<0.05Ib	1.0	1.0
0.1Ib ≤ I ≤ Imax	0.05Ib≤I≤Imax	1.0	1.0
0.1Ib≤I<0.2Ib	0.05Ib≤I<0.1Ib	0.5(L) 0.8(C)	0.5(L) 0.8(C)
0.2Ib≤I≤Imax	0.1Ib≪I≪Imax	0.5(L) 0.8(C)	0.5(L) 0.8(C)

2.2.2 Self-consumption

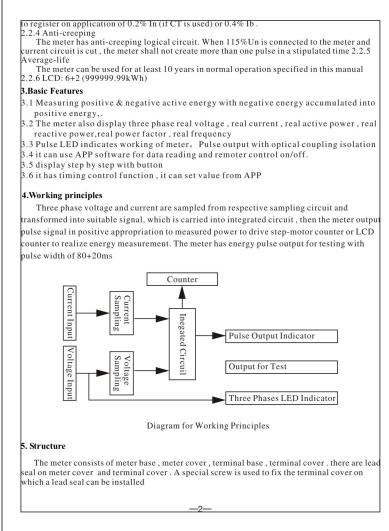
Current circuit is less than 1.5VA / each phase

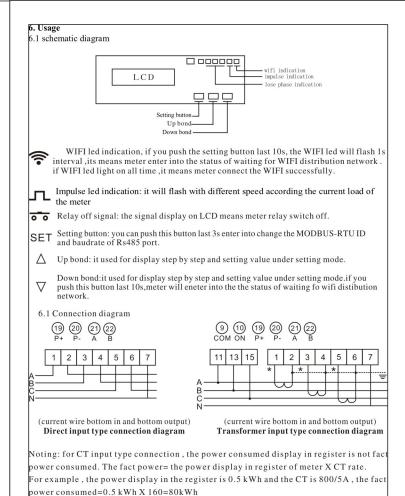
Voltage circuit is less than 2W/8VA each phase

2.2.3 Starting current

Under the rated voltage, rated frequency and $\cos \Phi = 1$, the meter shall start and continue

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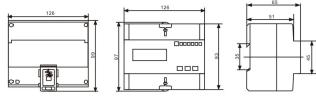




6.2 Installation

The meter can be installed on a 35 mm DIN rail

- 5.2.1 The meter can not installed and used until it is checked goods and sealed before delivery 5.2.2 The meter should be install in the water proof box indoor or outdoor, the meter 's box should be fixed on strong and flame-resistant wall with a recommended height of about 1.8 m, where there is no corrosive gas around.
- 6.2.3 The meter should be install fully in accordance with connection diagram on the terminal cover, it is better to use copper as the leading wire for connection. All screws should be tightened.
- 5.2.4 Diagram for installation dimension



7. Transportation and Storage

- 7.1 Heavy impact should be burdened to the products while transportation and unpacking.
- 7.2 The products should be stored in the original package and kept in place with temperature
- between $-40^{\circ}\text{C} \sim +70^{\circ}\text{C}$, the relative humidity less than 75% and no corrosive gas around. 7.3 In storehouse, the meter should be placed on the shelf when kept in stock, there should not be more than 7 cartons piled up in vertical. Single-packed meters can not be piled up with more than 5 meters in vertical.

8. Warranty nerio

Within 12 months from the day of selling and provided that users operate correctly according to the requirement of the user's manual, if the meter doesn't reach its technical specification. It can be repaired or replaced in free f charge by the manufacturer.

9. Display item

Display item:

	Display Item	LCD display		
01	RS485 baudrate	Ь	0000	
02	Meter serial high 6 digit	н	000000	
03	Meter serial low 6 digit	L	000000	

