

DTS238(E3403)

three phase RS485 type static kWh meter



E3403-1



E3403-2

The meter is used in three phase four wire/three phase three wire/two phase three wire power grid. It adopt LSI and SMT technology, the key component are long life international brand product. It has RS485 remote reading communication port and its data communication rules obey the requirement of MODBUS. It is a long life meter with the advantage of high stability, high over load capability, low power loss.

Basic Function

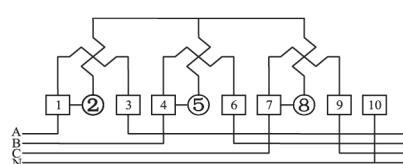
- LCD display 6+2 kWh
- Bi-directional total active energy measurement, reverse active energy measure in the total active energy
- Three phase power supply, the meter also measure when loss one phase(any one wire in three phase three wire) or when loss two phase(any two in three phase four wire)
- You can read data of three phase real voltage ,current ,active power ,power factor, frequency from RS485
- Loss phase LED indicates working of phase , reverse LED indicates current reverse
- Pulse LED indicates working of meter, Pulse output with optical coupling isolation
- Infrared and RS485 communication port

Optional Function

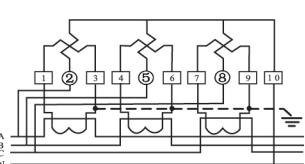
- Remote control function, the meter has function of remote control on/off through RS-485 by meter internal relay
- The meter can measure and display the total forward/reverse active energy for solar system measure
- Backup battery for LCD display at power off

Wire connection

(1) Three phase four wire direct connection

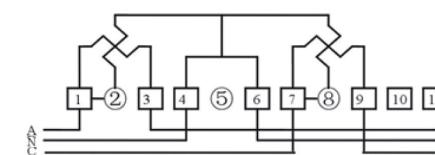


(2) Three phase four wire through current transformer connection

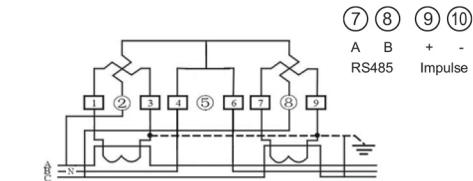


Wire connection

(3) Three phase three wire direct connection



(4) Three phase three wire through current transformer connection



Technical Data

Rate voltage	DTS238 RS485 type three phase four wire 3x127/220V, 3x120/208V, 3x220/380V, 3x230/400V, 3x240/415V DSS238 RS485 type three phase three wire(two phase three wire) 2x120/208V, 2x127/220, 3x220V, 3x380V, 3x400V
Working voltage range	0.8~1.2UN
Rate Current	5A/CT, 1.5(6)A, 5(30)A, 10(40)A, 5(60)A, 20(80)A, 20(100)A, 30(100)A, or other as required
Frequency	50Hz or 60Hz
Connection mode	CT type or Direct type
Display	LCD
Accuracy class	Active class 1.0
Power consumption	<0.5W/8VA each phase
Start current	0.004Ib
AC voltage withstand	4000V/25mA for 60 sec
Impulse Voltage	6kV 1.2 μ s waveform
IP grade	IP51 or IP54
Constant	400~6400 imp/kWh
Pulse output	Passive pulse, pulse width is 80 ± 5 ms
Communication port	RS485 port, 1200~9600bps Infrared port 1200 bps
Executive standard	IEC62053-21, IEC62052-11
Work temperature	-30°C ~70°C
Plastic case	Anti-fire and ultraviolet rays PC raw material
Outline dimension LMXH	215x145x62.5mm (short terminal cover L1) 260x145x62.5mm (long terminal cover L2)

Outline dimension

