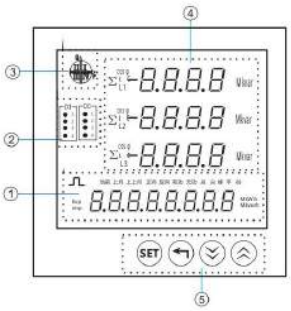
4.5.3 Definition of LCD display panel



1. Energy data display area
2. Switching value status display area
3. Quadrant indication
4. Electric quantity data display area
5. Operation buttons

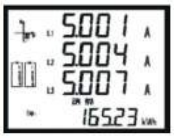
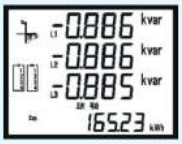
Meaning of partial LCD signs, see the following:

means the current running quadrant indication;
V means the current measured data is voltage;
A means the current measured data is current;
W means the current measured data is active power;
Var means the current measured data is reactive power;
VA means the current measured data is apparent power;
cos ϕ means the current measured data is power factor;
Hz means the current measured data is frequency;
kWh means the current display data is active energy;
kvarh means the current display data is reactive energy;
Σ means the parameter indication of combined phase;
L means the current running line is inductive;
C means the current running line is capacitive.

4.4.3 Description of LCD type meter display interface

Compared with the LED type meter, the LCD type display interface is more visualized and easi to be understood. Various power units can be directly displayed. The display of electric energy particularly visualized. When the electric quantity interface is switched, the display of electr energy will not be affected, which is suitable for convenient monitoring and reading of electr energy.

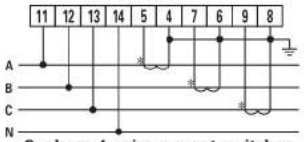
The measurement display interface has 7 pages (in the programming operation, to set Disp ca control the automatic cycle display time, the default of Disp is 0, which means it can displ fixedly), and the pages can be turned by the and the button, the four-quadrant power can b switched by the return button. The defaulted backlight of the meter remains ON. The user ca also change the starting time of backlight by the setting of B.LCD parameters. After setting, th backlight will be ON by any buttons. After the time which set by the user, the backlight wi automatically turn off.

Display	Page content	Instruction
Page1		It means the current running quadrant is the fourth quadrant, it will respectively display the voltage Ua, Ub, Uc of the 3-phase 4-wire, the unit is "V". The left picture shows: Ua=220.1V, Ub=220.4V, Uc=220.7V, active energy Exp=165.23kWh.
Page2		It means the current running quadrant is the fourth quadrant, it will respectively display the current Ia, Ib, Ic of the 3-phase 4-wire, the unit is "A". The left picture shows: Ia=5.001A, Ib=5.004A, Ic=5.007A, active energy Exp=165.23kWh.
Page3		It means the current running quadrant is the fourth quadrant, it will respectively display the combined phase active power value P,the unit is "W", the combined phase reactive power value Q, the unit is "var"; the combined phase power factor PF The left picture shows: Pt=1651W, Qt=-2597var, PFt=0.501 (capacitive), active energy Exp=165.23kWh.
Page4		It means the current running quadrant is the fourth quadrant, it will display the split-phase active power value P, the unit is "W". The left picture shows: Pa=500W, Pb=501W,Pc=500W, active energy Exp=165.23kWh.
Page5		It means the current running quadrant is the fourth quadrant, it will display the split-phase reactive power value Q, the unit is "var". The left picture shows: Qa= -886var, Qb=-886var,Qc=-885var, active energy Exp=165.23kWh.
Page6		It means the current running quadrant is the fourth quadrant, it will display the split-phase power factor PF. The left picture shows: PFa=0.501 (capacitive),PFb = 0.499 (capacitive PFc = 0.502 (capacitive), capacitive is indicated by the sign "C", and inductive is indicated by the sign "L". It can also be read from the coordinate axis of th top left corner on the screen. The first quadrant inductive, and the fourth quadrant is capacitive. Active emergy Exp=165.23kWh
Page7		It means the current running quadrant is the fourth quadrant, it will display the signal frequency value F, the unit is "Hz". The left picture shows: F=50.02Hz, active energy Exp=165.23kWh.

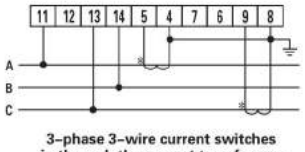
4.3 Connection

Before powered on, check the connection is correct or not. If the following drawing is different from the drawing pasted on the meter shell, please take that one as the criterion.

4.3.1 Connection drawing of voltage directly switches in, current switches in through the current transformer

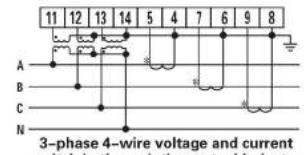


3-phase 4-wire current switches in through the current transformer

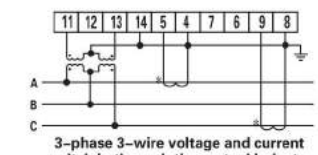


3-phase 3-wire current switches in through the current transformer

4.3.2 Connection drawing of voltage and current switches in through the mutual inductor



3-phase 4-wire voltage and current switch in through the mutual inductor



3-phase 3-wire voltage and current switch in through the mutual inductor

4.3.3 Connection drawing of auxiliary power supply and extended function module

	52	53	54	55	56	57	58	59	2	1
☐	Ao1+	Ao1-	Ao2+	Ao2-	Ao3+	Ao3-	485A	485B	N	L
☐	Di1+	Di1-	Di2+	Di2-	Di3+	Di3-	485A	485B	POWER	
☐	Do1		Do2		Do3		485A	485B		
☐	485A	485B					P+	P-		

☑ indicates that the horizontal functions are included, on the contrary, it means without any extended function.

485A, 485B: RS485 communication interface
Ao1+~Ao3+: positive pole of analog quantity output
Ao1-~Ao3-: negtive pole of analog quantity output
Do1~Do3: relay contact output port
Di1~Di3: switching value input port
P+, P-: active energy pulse output port