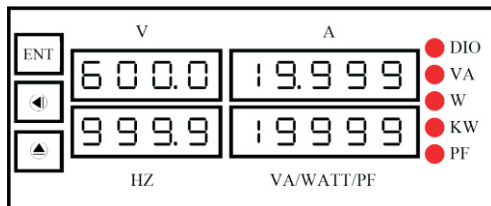


* Please understand key indicators & functions at the first operation.

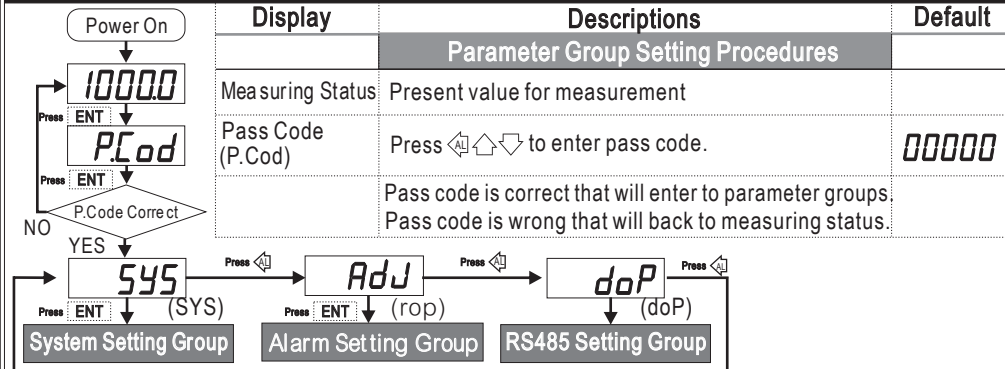
FRONT PANEL & KEY FUNCTIONS



Key Name	Symbol	Descriptions
Enter Key & Save Key	ENT	1. In the measuring status, press this key can enter to parameter pages. 2. In the parameter setting, press this key can save the value & go to next parameter.
Shift Key	←	1. In the parameter setting, press this key can move the cursor left.
Up Key	↑	1. In the parameter setting, press this key can increase the digits.

- **1. The following block charts are parameters codes, parameter codes & parameters will alternate flashing if the parameters can be modified.
- 2. To modify the parameters, please press ← ↑ ↓, and press ENT to save the parameter after the modification.
- 3. Please don't forget the new pass code after modification.
- 4. In any pages, press ↑ & ↓, or don't press any keys for 2 minutes that will back to measuring status.

PROGRAMMING MODE OPERATING PROCEDURES



Display	Descriptions	Default
System Setting Group Procedures		
555 Press ENT ↓ uOL	Volt Range Setting (VOL) 1. Press(←)select the volt range.(300V/600V)	300V
Press ENT ↓ dP-A	Decimal Point Current Setting (DP-A) 1. Press(←)select the decimal point current setting	0
Press ENT ↓ ARP	Current Range Setting (AMP) 1. Press(←)select the current range setting(5A/50A)	5A
Press ENT ↓ CTR	CT Ratio Setting (CTR) 1. Press(←)(←)select the CT ratio setting(1~999)	1
Press ENT ↓ Unit	Watt Unit Setting (UNIT) 1. Press(←)select the watt unit setting(W/KW)	W
Press ENT ↓ dP-W	Decimal Point Watt Setting (DP-W) 1. Press(←)select the decimal point watt setting(0~4)	0
Press ENT ↓ uCut	Display Voltage Low Cut Setting (VCUT) 1. Press(←)(←)select display voltage low cut setting(0~99)	00000
Press ENT ↓ ACut	Display Current Low Cut Setting (ACUT) 1. Press(←)(←)select display current low cut setting(0~99)	00000
Press ENT ↓ wCut	Display Watt Low Cut Setting (WCUT) 1. Press(←)(←)select display watt low cut setting(0~99)	00000
Press ENT ↓ AvG	Display Average Setting (AvG) 1. Press(←)(←)select display average setting(1~99)	0000 1
Press ENT ↓ Code	Pass Code Setting (CodE) 1. Press(←)(←)select pass code setting(0~19999)	00000
Display: "ZERO" & "SPAN" Adjustment		
Adj Press ENT ↓ vPEr	Voltage Zero Adjustment (vZEr) Press(←) to select adjusting speed rate, press ↑ ↓ to modify the zero value. PS: To use this function to adjust the real zero value.	00000
Press ENT ↓ vSPA	Voltage Span Adjustment (vSPA) Press(←) to select adjusting speed rate, press ↑ ↓ to modify the span value. PS: To use this function to adjust the real span value.	00000
Press ENT ↓ APEr	Current Zero Adjustment (AZEr) Press(←) to select adjusting speed rate, press ↑ ↓ to modify the zero value. PS: To use this function to adjust the real zero value.	00000
Press ENT ↓ ASPA	Current Span Adjustment (ASPA) Press(←) to select adjusting speed rate, press ↑ ↓ to modify the span value. PS: To use this function to adjust the real span value.	00000
Press ENT ↓ wPEr	Watt Zero Adjustment (WZEr) Press(←) to select adjusting speed rate, press ↑ ↓ to modify the zero value. PS: To use this function to adjust the real zero value.	00000
Press ENT ↓ wSPA	Watt Span Adjustment (WSPA) Press(←) to select adjusting speed rate, press ↑ ↓ to modify the span value. PS: To use this function to adjust the real span value.	00000

Display	Descriptions	Default
RS485 Setting Group Procedures		
	Address Setting (Addr) 1. Press(△)select the address range.(300V/600V)	00000
Baud Rate Setting (bAUd) 1. Press(△)select the baud rate setting.		19200
Parity Setting (PAr) 1. Press(△)select the parity setting.(5A/50A)		n82

Error Code of Self-Diagnosis

ioFL	Input signal is over 120% of input range.
doFL	Input signal is over display range (99999)
AdEr	Input signal is over 180% of input range or meter error.
E-00	EEPROM reading/writing suffers the interference (about 1 million times).

Modbus RTU Mode Protocol Address Table			
	Name	Descriptions	Act
0000	DP-A	Current decimal point position, range 00~04(0~4) 0:10 ⁰ ,1:10 ⁻¹ ,2:10 ⁻² ,3:10 ⁻³ ,4:10 ⁻⁴	R/W
	DP-W	Watt decimal point position, range 00~04(0~4) 0:10 ⁰ ,1:10 ⁻¹ ,2:10 ⁻² ,3:10 ⁻³ ,4:10 ⁻⁴	R/W
0002	VOL.	Voltage input range, 00~01(0:300V,1:600V)	R/W
	AMP.	Current input range, 00~01(0:5A,1:50A)	R/W
0004	UNIT	Display watt range, 00~01(0:KW,1:W)	R/W
	STATUS	LED indicate status, BIT0:DIO,BIT3:KW,BIT4:W,BIT5:VA,BIT6:PF	R/W
0006	VCUT	Voltage Low cut, range 00~63(0~99)	R/W
	ACUT	Current Low cut, range 00~63(0~99)	R/W
0008	WCUT	Watt Low cut, range 00~63(0~99)	R/W
	AVG	Display Average time, input range 01~63(1~99)	R/W
000A	BAUD	Baud rate, input range 00~03(0~3)0:19200,1:9600,2:4800,3:2400	R/W
	PARI	Parity, input range 00~03(0~3)0:N82,1:N81,2:EVEN,3:ODD	R/W
000C	CTR	Current transformer rate, input range 0001~03E7(1~999)	R/W
000E	CODE	Pass code, input range 0000~4E1F(0~19999)	R/W
0010	ADDR	Communication address, input range 0000~00FF(0~255)	R/W
0012	IL-V	Minimum Voltage calibrate, input range 029F16~4EA4A8(171798~5153960)	R
0015	IL-A	Minimum Current calibrate, input range 029F16~4EA4A8(171798~5153960)	R
0018	IL-W	Minimum Watt calibrate, input range 029F16~4EA4A8(171798~5153960)	R
001B	IH-V	Maximum Voltage calibrate, input range 029F16~4EA4A8(171798~5153960)	R
001E	IH-A	Maximum Current calibrate, input range 029F16~4EA4A8(171798~5153960)	R
0021	IH-W	Maximum Watt calibrate, input range 029F16~4EA4A8(171798~5153960)	R
0024	DISP-F	Frequency display value, range 0000~270F(0~9999)	R
0026	DISP-V	Voltage display value, range 0000~270F(0~9999)	R
0028	DISP-A	Current display value, range 0000~4E1F(0~19999)	R
002A	DISP-W	Watt(VAR,PF) display value, range 0000~4E1F(0~19999)	R