USER MANUAL

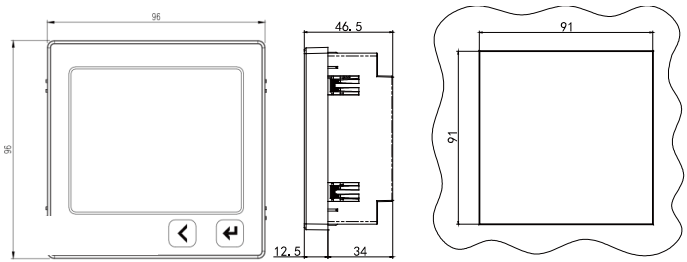
LOAD MANAGER (EIPL56ER)

Version 1.0

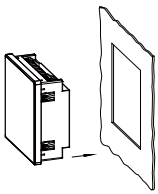
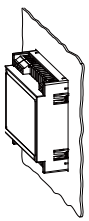
Release Date: 24/09/2020

1. Installation

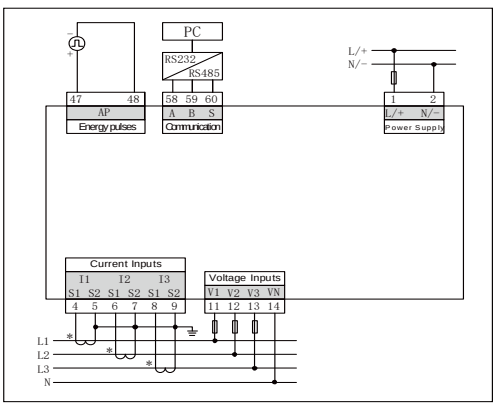
1.1 Dimension



1.2 Installation

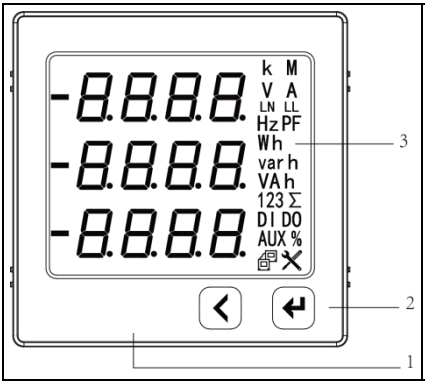
	Mount the instrument from the outside of the panel into the mounting hole.
	Install to the end and fix the instrument through the snap spring.

1.3 Wiring



2. Operation

2.1Panel description



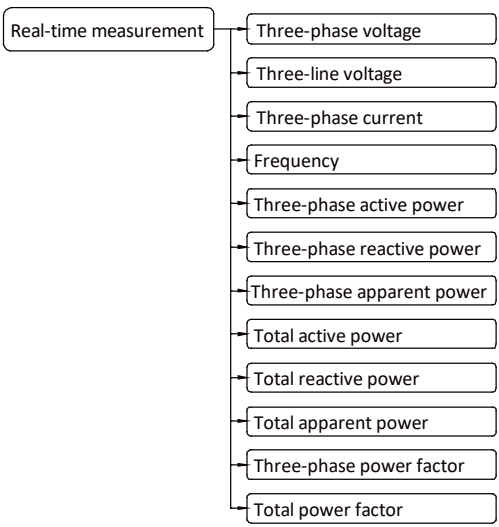
1: Model

2: Display window

3: Operation keys

2.2 Display

The meter can display the measurement data cyclically through the "<" or "↵" key. The overview of the display interface is as follows:



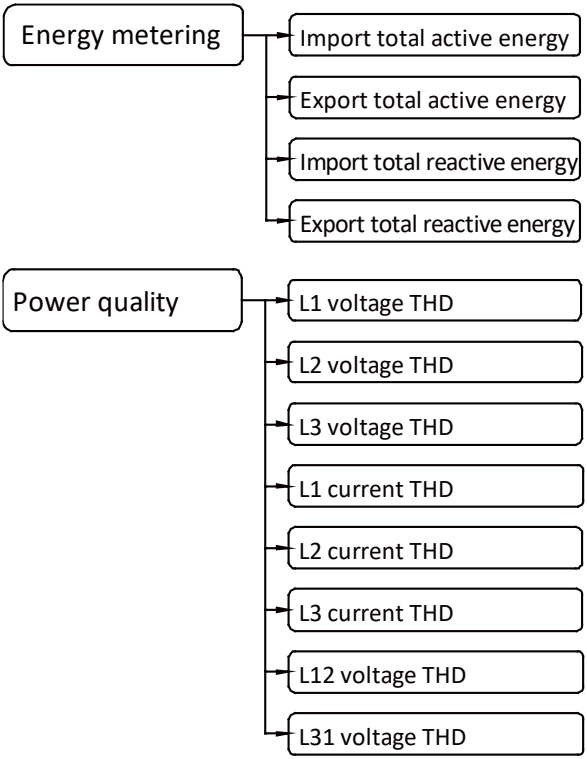
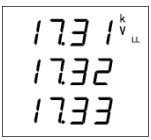
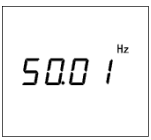
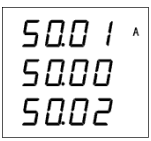
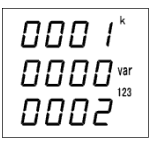
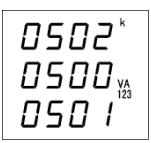

Energy metering
Import total active energy
Export total active energy
Import total reactive energy
Export total reactive energy
Power quality
L1 voltage THD
L2 voltage THD
L3 voltage THD
L1 current THD
L2 current THD
L3 current THD
L12 voltage THD
L31 voltage THD

Table 2-1 Electrical variables display pages

Display interface	Instruction
	Three-phase voltage V1＝10.01kV V2＝10.00kV V3＝10.02kV
	Three-line voltage U12＝17.31kV U23＝17.32V U31＝17.33V
	Frequency F＝50Hz
	Three-phase current I1＝5.001A I2＝5.000A I3＝5.002A
	Three-phase active power P1＝502kW P2＝500kW P3＝501kW
	Three-phase reactive power Q1＝1kvar Q2＝0kvar Q3＝2kvar
	Three-phase apparent power S1＝502kVA S2＝500kVA S3＝501kVA

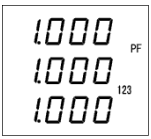
	Total active power, Total reactive power , Total apparent power ΣP=1502kW ΣQ=3kvar ΣS=1502kVA
	Power factor PFa= 1.000 PFb=1.000 PFc=1.000
	Total power factor PF＝0.980

Table 2-2 Energy display pages

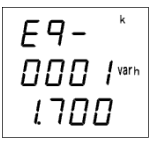
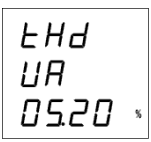
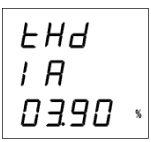
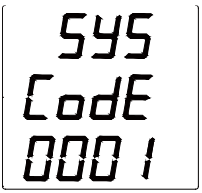
Display interface	Instruction
	Import total active energy EP=1807.6kWh
	Export total active energy EP-=0.0kWh
	Import total reactive energy EQ=10.2kvarh
	Export total reactive energy EQ-=11.7kvarh

Table 2-3 Power quality display interface

Display interface	Instruction
	Total voltage distortion rate THDua=5.2%。
	Total current distortion rate THDia=3.9%。

2.3 Setting



The setting menu adopts hierarchical management mode: three rows correspond to three level menu information. The setting menu overview map is as follows:

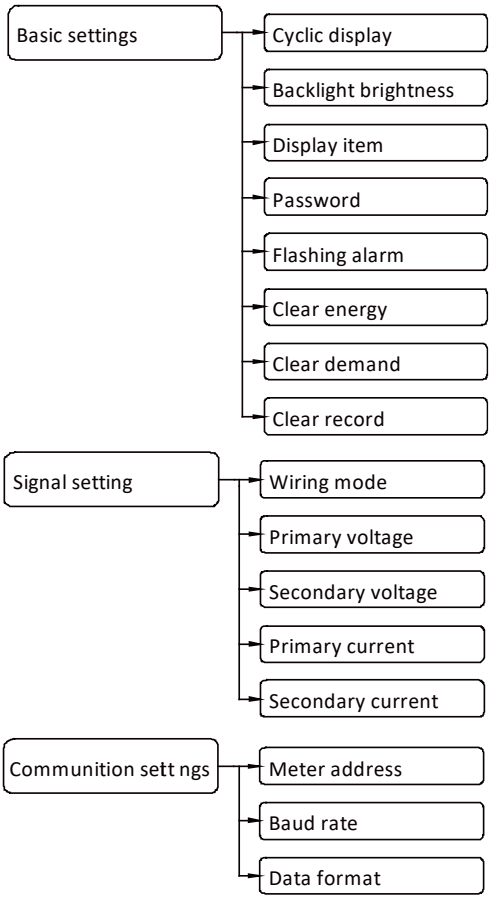


Table 2-4 Settings menu description

First level	Second level	Third level	Instruction
System setting SYS	Password CodE	0000～9999	User password
	Cyclic display CYC	**0～60**	0: no cyclic display 1~30： looping display,30 s apart
	LED brightness LIGH	**0～4**	0:Darkest4:Brightness
	Display item diSP	Voltage, current etc.	Default display page
	Flashing alarm ALr	**0** **30～120**	0:Disable off-limit alarm flashing function 30～120:Threshold value%
	Clear energy CLr.E	noorYES	NO：not clear energy YES：clear energy
	Clear demand CLr.d	noorYES	NO：not clear demand YES：clear demand
	Clear record CLr.n	noorYES	NO：not clear record YES：clear record
Signal input InPt	Wiring mode nEt	n.33 n.34 n.12	n.33：three phase three wire n.34：three phase four wire n.12：single phase
	Primary voltage PT. 1	**1～9999 kV**	PT Primary side voltage rating
	Secondary voltage PT. 2	**1～690 V**	PT secondary side voltage rating
	Primary current CT. 1	**1～9999 kA**	CT primary side current rating
	Secondary current	**1～6 A**	CT secondary side current rating

	CE. 2		
First communication Con 1	Meter address Addr	0001~0247	Set the meter address：1～247
	Baud rate bAUd	1200~9600	Unit:bps
	Data format dAtA	n.8.1 o.8.1 E.8.1 n.8.2	n.8.1：no check, one stop bit o.8.1：dd check,one stop bit E.8.1：even check, one stop bit n.8.2：no check, two stop bits
version number uEr	1001 189A		Software version number

Operation instruction for keys

The "<" key is used to add and subtract the menu's toggle key and value. The "↵" key is used to enter the lower menu and confirm the value after modification.

To increase or decrease the value of a hundred thousand bits:

Press the "↵" key to move the cursor to the value you want to modify, press the "<" key to modify the corresponding value.

Enter the setting status:

Enter the setting state to pass the password authentication. Press the "↵" button in the meter display state, the meter displays "CodE", press the "↵" button to confirm the password authentication interface, and enter the password through the "<" and "↵" keys. The initial password of the system is 0001. Press "↵" to confirm. If the password is correct, the meter enters the setting interface. If the password is incorrect, the interface will not change.

Exit the setup status:

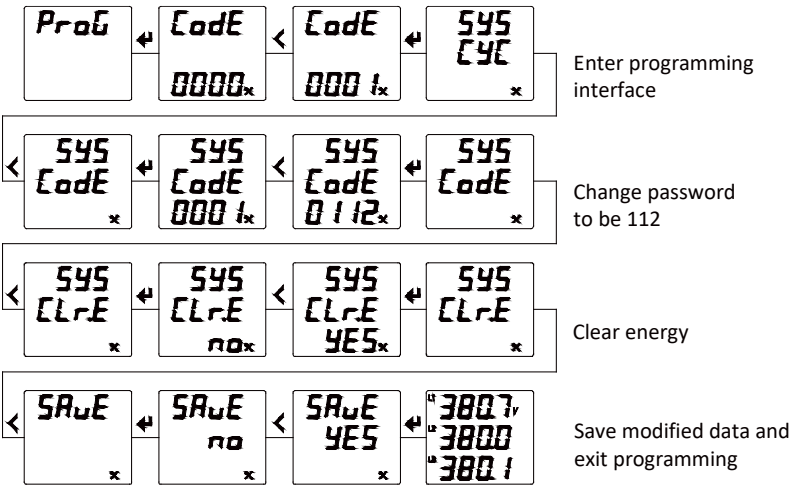
Press "<"+"↵" in any setting interface, the meter will display "SAvE", then press "↵" and the meter will display "no". At this time, there are two operations:

(1) Save and exit: press "<" to switch to "SAvE--YES", then press "↵" to save the setting parameters to exit;

(2) Exit without saving: Press "↵" to exit without saving the setting parameters.

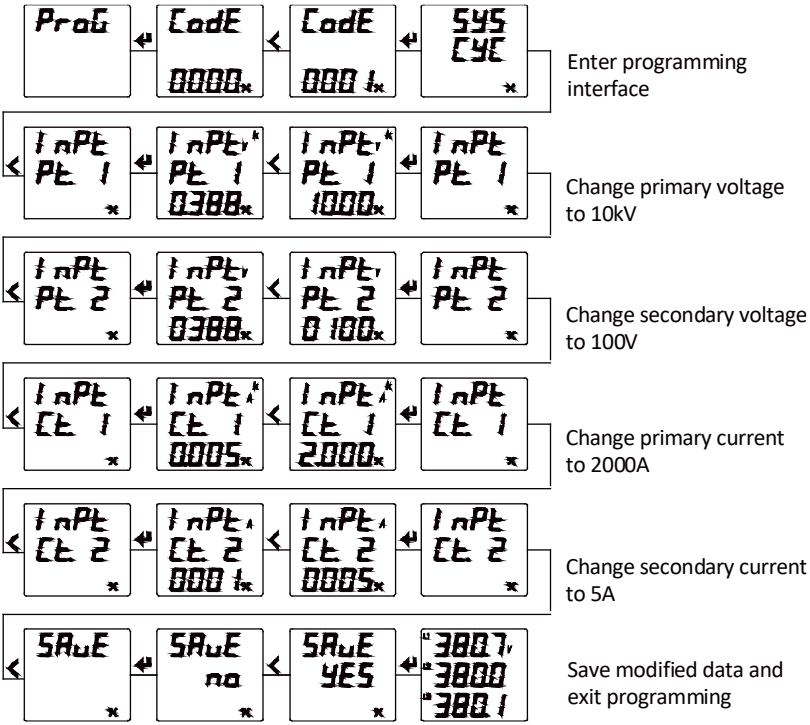
2.3.1 System parameter setting

If the user password is changed to 112 and the energy data is cleared, the menu operation steps are as follows:



2.3.2 Signal input setting

If the signal of the meter is 10kV/100V, 2000A/5A, the menu operation steps are as follows:



2.3.3 Communication setting

If the instrument communication address is set to 12, the baud rate is 9600, and the data format is E81 even parity mode, the menu operation steps are as follows: