PCE-PA 5500 Multifunctional Power Meter
Quick Guide

Panel Description

(Subject to the physical object)

Serial number	Name	Function Description
SET	Confirmation key (menu key)	Press and hold this key for three seconds to enter the menu; confirm the modified menu value
	Reduce key	Used in menu operations to enter data modification/menu switching; value reduction/menu switching to the left

③	Add key	Used in menu operations to access data modification/menu switching; value increase/menu switching to the right
④	Return button	Used in menu operations to return to the previous level

Note: ALM is the alarm light, COM is the communication light

Electricity meter parameters

Measurement Type	Three-phase voltage, current, active and reactive apparent power, power

	factor, residual current, electrical energy, current demand, maximum demand, temperature (optional)
Rated power supply	100V~260V
Measured voltage	L-N 30V ~ 264V/L-L 52V ~ 460V Measurement accuracy 0.2
Measuring current	AC 0.025A ~ 5A Measurement accuracy 0.2
Measuring temperature	-40℃~150℃ (optional)
Residual current	0.01A~5A Measuring accuracy 0.5
Measurement accuracy	Active power accuracy class 0.5S, reactive power accuracy class 0.5; 0.01Hz frequency
Communication protocols	Standard 2 RS-485 ports Support 4G /WiFi/lora communication (optional) Communication protocol: MODBUS-RTU /MQTT

Installation method	Embedded

Panel interface display description

Three-phase voltage --> Three-phase current --> Zero sequence current --> Three-phase active power -- -->three-phase reactive power -->three-phase apparent power -->three-phase power factor -->system frequency -->Total voltage harmonics -->Total current harmonics -->Voltage unbalance -- --> Current unbalance --> Current demand --> Maximum demand --> Two-way temperature (optional)

Setup menu description

1、Long press the "SET" key for more than 3 seconds, if the user has set a password, the password input box will pop up, enter the correct password to enter the user menu to modify the corresponding parameters.

2、If the current display is the first level, long press the confirmation key "SET" to enter the next level display, tap the◄ /► key to change the menu sub items

3、If the current is the 2nd or 3rd level of display, tap "↩ " key to return to the previous level of display

4、If the current display is level 3, long press the / ◄► key to change the digital flashing position, press the◄ /► key to shift, tap the◄ /► key to adjust the value; press the confirmation key "SET" to save the setting value; if you press the "↩ " key, it will not save the setting value and return to level 2.

5、Finish the modification, press the confirmation key "SET".

Explanation of menu symbols

Level 1	Next level	Description
SEt ((System Settings)	CLrE (Removal of electrical energy)	Enter "1111" to clear the power; enter "2222" to clear the maximum demand; enter

		"1234" to restore the factory settings
	USEr (Change password)	Change user password
	bLt (Backlight time)	Modify backlight time
	PGCH (Page turn time)	Measures page turn time in "seconds". The value of "0" does not turn the page
	VEr (Version	Software

	number)	version number, for manufacturer's internal management, read-only
InP (Signal input)	L In (Web)	This setting is the wiring mode setting, which can modify three-phase four-wire or three-phase three-wire wiring.

	Pt1 (Voltage ratio)	Primary side voltage, unit:V
	Pt2 (Voltage ratio)	Secondary side voltage, unit: V
	Ct1 (Current variation ratio)	Primary side current, unit: A
	Ct2 (Current variation ratio)	Secondary side current, unit:A
Con (Communication settings)	Add1 (Device address)	Device address, range 1~9999
	bAd1(Baud rate)	Baud rate 4k8 means 4800,

		9k means 9600,11k2 means 115200
AL (Switching setting)	AdL (Alarm method)	The value of DO corresponds to the remote control mode, otherwise it is the alarm mode.
	AL1 (Alarm action value)	1st channel alarm value setting (unit is standard

		display unit)
	HY1 (Alarm return value)	1st alarm return difference value setting (unit is standard display unit)
	oUt1(Alarm relay selection)	1st alarm relay output selection (can be set when none of the alarm methods are DO)

	dLA1 (Action delay)	Action delay time, unit: second
	dLb1 (Alarm end time)	Action reset time, unit: seconds
br (Analog output)	brA (Variable transmission mode selection)	Refer to Exhibit 1
	brH (Variable transmission limit)	20mA output to strain feed
	bAL (Variable transmission	20mA output to strain feed

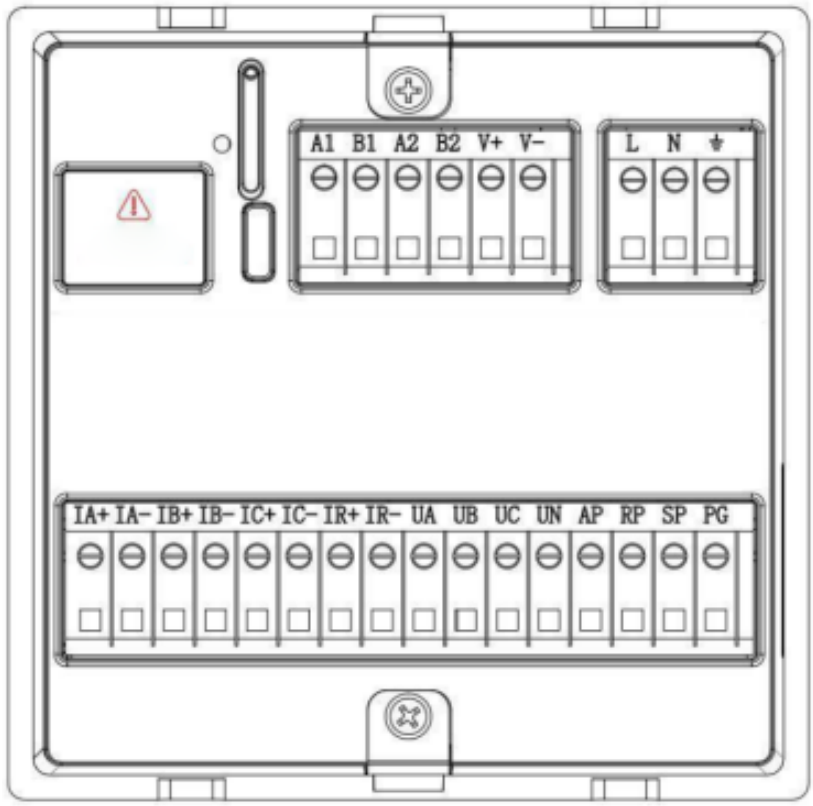
	lower limit)	
tIME (Time setting)	YEAr (Year)	Year
	mon (Month)	Month
	dAY (Day)	Date
	HoUr (When)	Time
	mIn (Points)	Points
	SEC (seconds)	seconds
FFL (Paid rate setting)	FFL 1 (Rate for time slot 1)	Rates for time period 1, representing four rates for spikes and valleys (Note:

		FFL rates / 1-4 rate numbers / 0000 time)
	FFL2 (Rate for time slot 2)	Rates for time period 2, representing four rates for spikes and valleys (Note: FFL rates / 1-4 rate numbers / 0300 time)
	⋮	⋮
	FFL8 (Rate for	Rates for time

	time slot 8)	period 8, representing four rates for spikes and valleys (Note: FFL rates / 1-4 rate numbers / 2100 time)
	⋮	⋮
	(Rate for time slot 12)	Rates for time period 12, representing four rates for spikes and

		valleys (Note: FFL rates / 1-4 rate numbers / 2100 time)
	Rate number 1~4 for spikes and valleys, time 0000 represents hour and minute	

Basic version of the wiring method and definition description

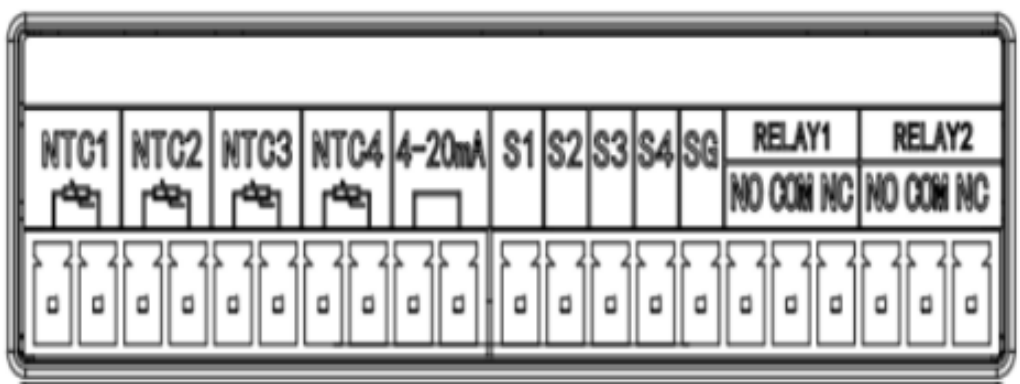


A1/B1	RS485-1
A2/B2	RS485-2 Southbound [Customization available]
V+/V-	DC24V interface output
L/N	AC 220V interface

IA+/IA-	A-phase current input and output
IB+/IB-	B-phase current output
IC+/IC-	C-phase current input
IR+ IR-	Residual current transformer
UA/UB/UC/UN	Three-phase voltage
AP	Active energy pulse
RP	Reactive power pulse
SP	Visual energy pulse
PG	Common ground of AP/RP/SP (electrical energy ground)

Control board description (optional)

4-channel NTC temperature measurement + 4-channel switching (passive) input + 2-channel relay output + 1-channel analog 4-20mA output.



Channel Interface	Channel Function
NTC1	Temperature measurement NTC input port 1

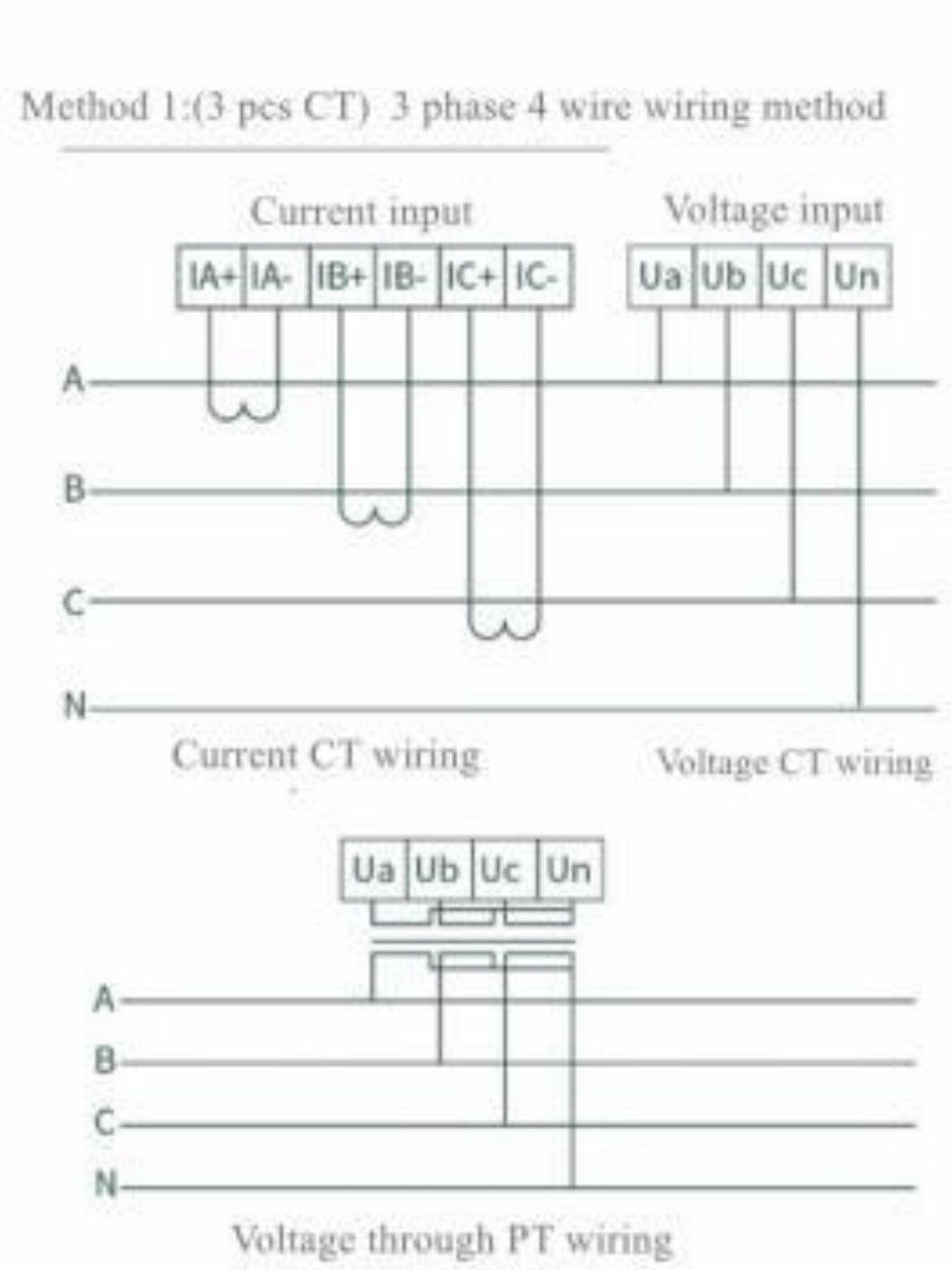
NTC2	Temperature measurement NTC input port 2
NTC3	Temperature measurement NTC input 3
NTC4	Temperature measurement NTC input port 4
4-20mA	Analog output
S1	Switching input port 1
S2	Switching input port 2
S3	Switching input port 3

S4	Switching input port 4
SG	4-channel switching common ground
RELAY1	Relay output 1
RELAY2	Relay output 2

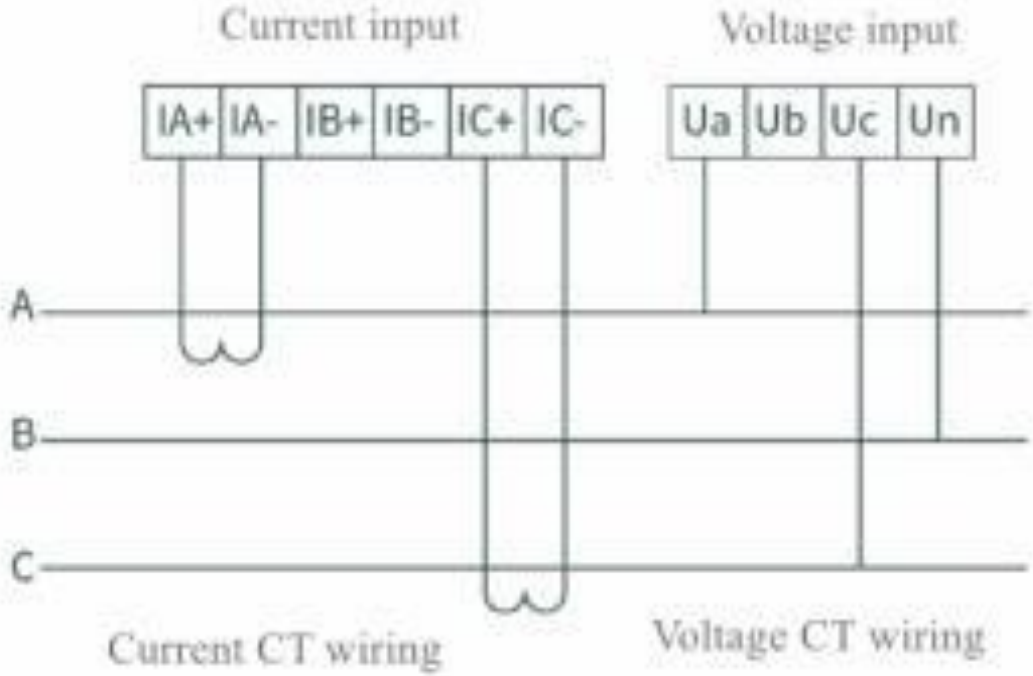
Note: NO of relay output is normally open, NC is normally closed, COM is common terminal

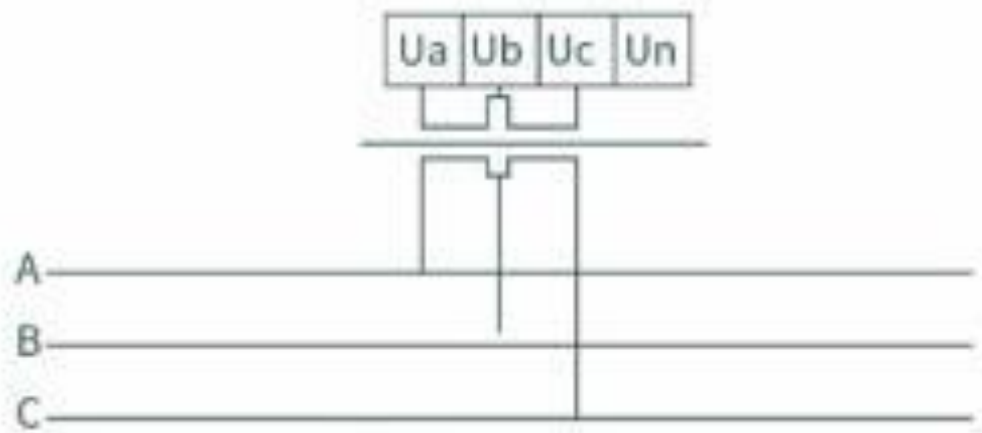
Relay Description: The alarm function of the meter can be used together with the relay.

Wiring Diagram



Method 2:(2 pcs CT) 3 phase 3 wire wiring method





Voltage through PT wiring