Voltage / Current Protector GPS8-10
Instruction Manual

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General

■Applications

-Overvoltage, undervoltage, overcurrent and leakage protection for household equipment, while displaying frequency, power factor, power, and electricity consumption;.

■ Function Features

-Overvoltage, undervoltage, overcurrent, and leakage protection.
-Special metering chips are used to detect voltage, current, electricity consumption and power.
-Double bus wiring design stronger ability.
-Over / under voltage value and over-current value can be set.
-Self reset after fault.
-Large color screen display.
-DIN rail mounting.

■Model and connotation

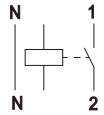
GPS8 —10 □
- Incoming line mode
  - U:upper incoming line
  - D:lower incoming line
- Design number
- GPS8 Series

Technical parameters

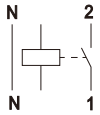
	GPS8-10
Function	Over voltage, under voltage and over current
Rated supply voltage	AC220V(L-N)
Rated supply frequency	45~65Hz
Operation voltage range	80V~400V(L-N)
Rated operational current	32A,40A,50A,63A,80A（AC1）
Burden	AC max.3VA
Over voltage operation value	OFF,230V~300V
Under voltage operation value	140V~210V,OFF
Over/under voltage action delay	0.1s~10s
Over current operation value	1~32A,40A,50A,63A,80A
Over current action delay	2s~600s
Leakage current value	OFF,10mA~400mA
Leakage reclosing count	OFF,1~20,ON
Power-up delay	2s~600s
Reset time	2s~900s
Measurement error	≤1%
Electrical life(AC1)	1×10^{4}
Mechanical life	1×10^{6}
Operating temperature	-20°C ~ +60°C
Storage temperature	-35°C ~ +75°C
Mounting/DIN rail	Din rail EN/IEC 60715
Protection degree	IP40 for front panel/IP20 terminals
Operating position	any
Overvoltage cathegory	III.
Pollution degree	2
Dimensions	82×54×68mm
Weight	205g

Wiring Diagram

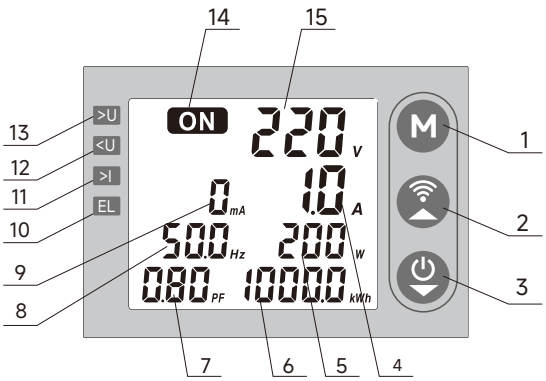
GPS8-10U



GPS8-10D

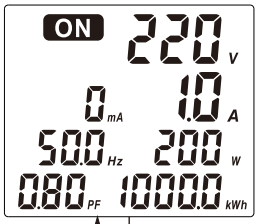


Panel Diagram



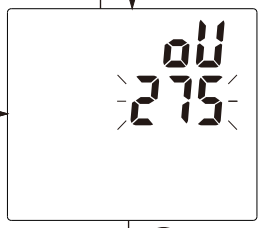
1	Press and hold the setting key for 3 seconds to enter the setting. After modifying the setting, press and hold for 3 seconds to save the setting.
2	1.Used to increase the value when setting parameters.
	2.Long press for 5 seconds to configure WiFi network.
3	1.Used to reduce the value when setting parameters.
	2.After exiting the setting, it can be used to manually turn on or off the load.
	3.If the automatic fault reset function is turned off, this button can be used for manual reset when the fault occurs.
4	Current value
5	Power
6	Electricity consumption
7	Power factor
8	Frequency
9	Leakage current
10	Leakage fault indication
11	Overcurrent fault indication
12	Overvoltage fault indication
13	Undervoltage fault indication
14	ON/OFF status indication
15	Voltage value

Parameter setting



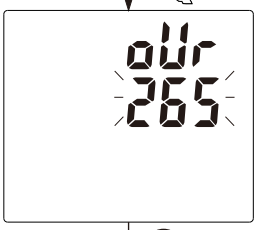
Long press (M) 3 second to enter the parameter setting.

M 3s



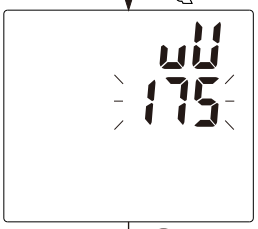
Overvoltage value
OFF,230V~300V

M



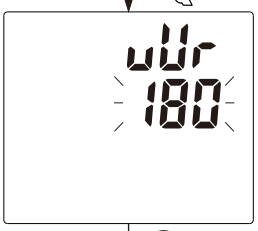
Overvoltage recovery value
225V~295V

M



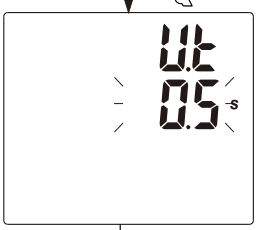
Undervoltage value
140V~210V,OFF

M



Undervoltage recovery value
145V~215V

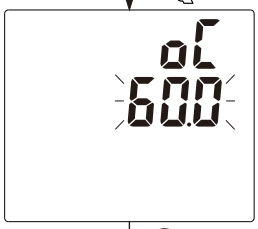
M



Over/under voltage fault action time
0.1s~10s

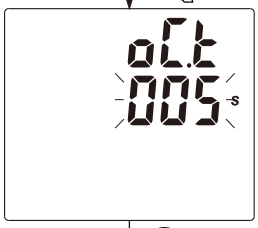
M

M



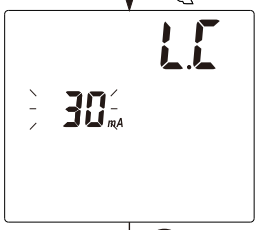
Overcurrent setting
OFF,1A~32A/40A/50A/63A

M



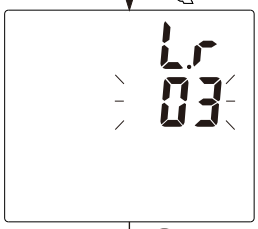
Overcurrent action time
2s~600s

M



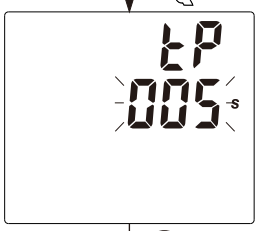
Leakage current setting
OFF,10mA~400mA

M



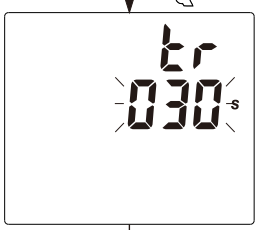
Leakage reclosing counting setting
OFF,1~20,ON

M



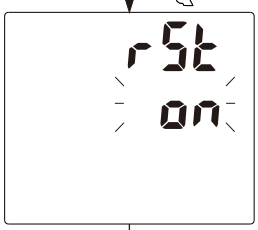
Power on delay setting
2s~600s

M



Reset time setting
2s~900s

M



Fault reset
ON-OFF

M

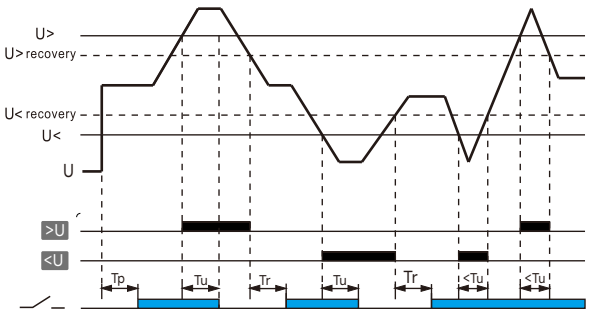
NOTE:
Short press ▼ ⏻ to increase or decrease the value, long press can be quickly set.
If 60 seconds does not operate the key, it will exit automatically.You can press the (M) for 3 seconds at any time to exit the and save the setting.

Factory settings

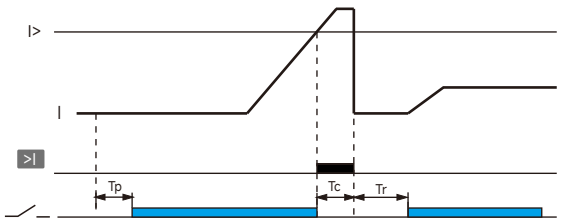
Parameter	Range	Step value	Factory settings
Over voltage value	OFF,230V~300V	1V	275V
Over voltage recovery value	225V~295V	1V	265V
Under voltage value	140V~210V,OFF	1V	175V
Under voltage recovery value	145V~215V	1V	180V
Voltage fault action time	0.1s~10s	0.1s	0.5s
Over current value	OFF,1A~32/40/50/63A/80A	0.1A	32A/40/50/63A
Over current action delay	2s~600s	1s	5s
Leakage current	OFF,10mA~400mA	1mA	30mA
Leakage reclosing count	OFF,1~20,ON	1	3
Power on delay time	2s~600s	1s	5s
Reset time	2s~900s	1s	30s
Fault reset	ON-OFF	——	ON

NOTE:
In the power off state, press and hold ▲+⏻, and then power on again to restore the factory settings.

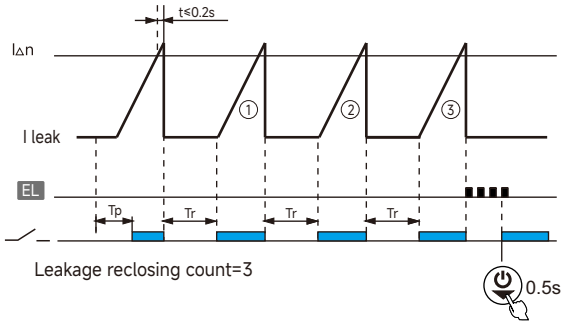
Functions Diagram



When an overvoltage/undervoltage fault occurs, the protector will turn off, When the voltage returns to normal, the protector will return on after the reset time(Tr) and the overvoltage/undervoltage value can be set.



When the current value exceeds the set current value and lasts for Tc time, the protector will off and start resetting with a delay(Tr). After the reset time is up, it will on again.

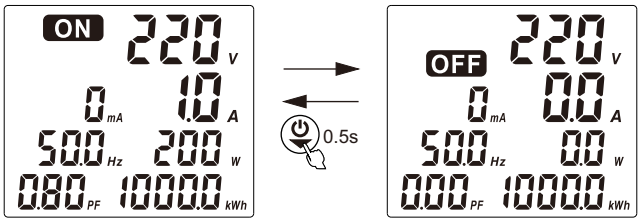


When the leakage current of the circuit exceeds the set leakage current, the protector will turn off.You can turn off the leakage protection function by setting it.The protector will reset according to the set reclosing count. If the count is exceeded, the protector will not reclose and will be indicated by the leakage current indicator light. You can reset it by pressing the ON/OFF button.The reclosing count of the protector can be set to ON to permanently activate the reclosing function.

Tp: Power-up delay(2~600s)
Tr: Reset delay time(2~900s)
Tu: Over/under voltage fault action time(0.1~10s)
Tc: Overcurrent fault action time(2~600s)

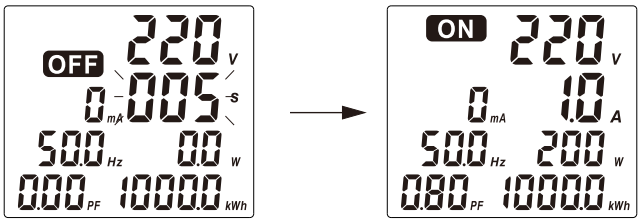
Open and close manually

Under normal operation, the load can be switched on or off manually by pressing the power key for 0.5 seconds.

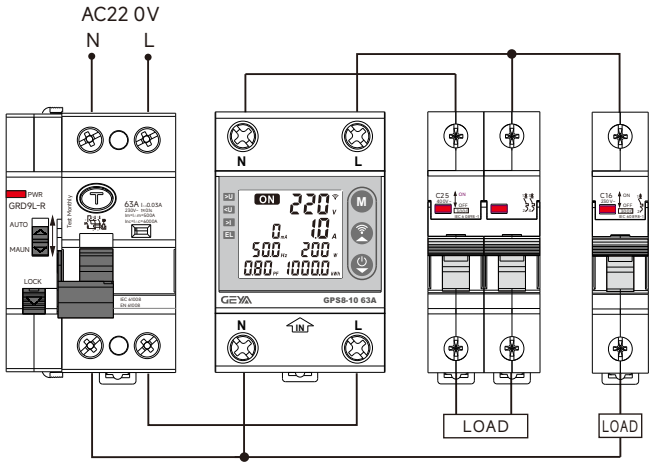


Power-on and reset delay

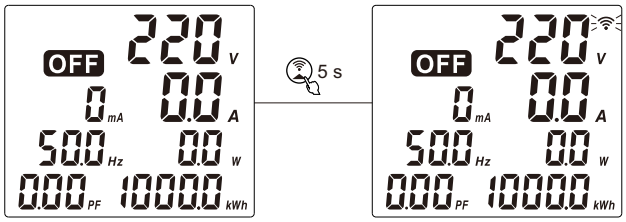
During the power-on and fault reset of the product, the product will count down and display according to the set delay time, and will enter the running state when the countdown ends.



Example



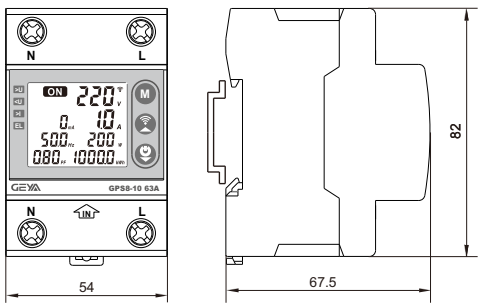
WIFI configuration



There is a QR code on the side of the product. Please scan, download, and install it.Press and hold for 5 seconds before entering the WIFI configuration state. At this time, the WIFI indicator flashes. Please open the app and press the prompt to configure. When the WIFI indicator is always on, it indicates that the WIFI signal is good. When the WIFI indicator flashes, it indicates waiting for WIFI configuration. When the WIFI indicator is always off, it indicates that the WIFI cannot be connected.

NOTE:
Please ensure that the WIFI is 2.4G.

Dimensions(mm)



This product does not have isolation function. Please disconnect the superior MCB during maintenance!!!

Disposal of Electrical Waste
All electrical waste should be disposed of in compliance with current WEEE regulations.

Caution
The products must be installed by qualified electricians. All and any electrical connections of the time relay shall comply with the appropriate safety standards.