

MARSHALL



2024

INSTALLATION GUIDE

MARSHALL BLACKBOX
(With Built-In Grid Meter)

Installation Guide

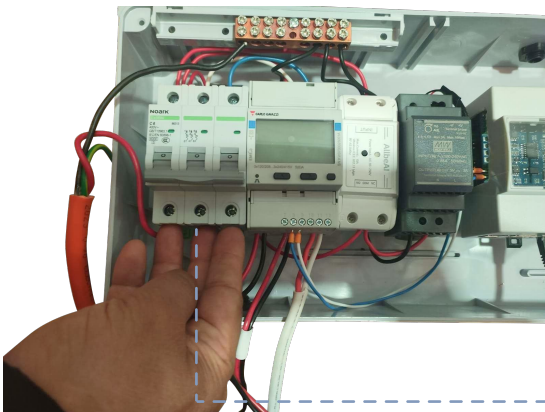
Connecting to Power & Internet

Overview

Zeco-Marshall Black Box (with built-in Grid Meter)

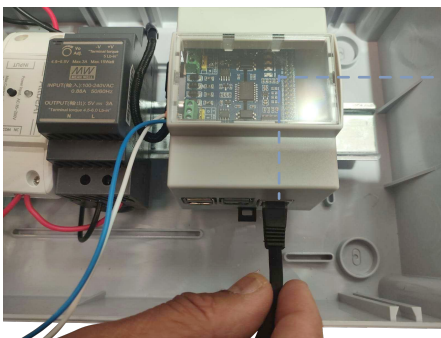
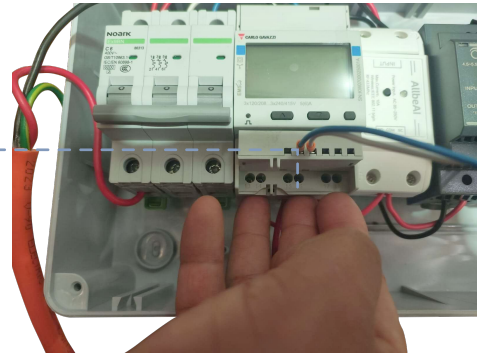


Connection



1. Connect the **three phases** to the **bottom** of the **circuit breaker**.

2. Connect the **three CTs** to the bottom of the meter, should match the **phases of the voltage reference**.



3. Use Lan cable or **Wi-Fi** to connect to the **local network**.

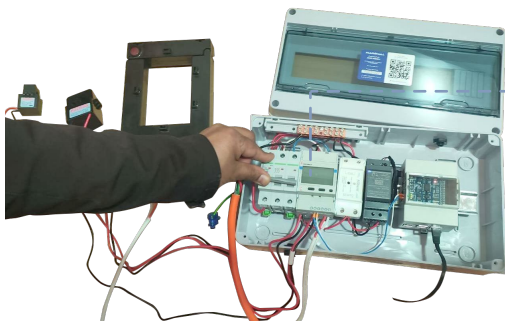
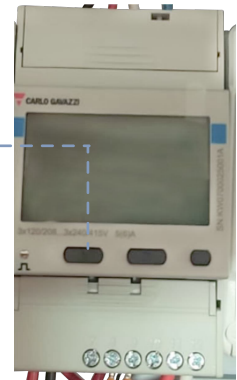
For wifi configuration, refer the following steps ;

- Connect to **marshall_ap_XXXXX** wifi Password: **marshall123**
- Phone will auto pop up **WiFi configuration** screen, if this does not auto open, go to browser and type **192.168.133.97:2050**
- Follow steps to input **SSID** and **password** and press connect, if no networks available, press the refresh button, if refresh button is saying "**no networks found**" but you are sure there are networks in the area, reboot Marshall, if this continues to happen, **call support**.
- After pressing connect, it will come up in yellow "**Trying to connect**", if the connection fails, it will turn red and "**Failed to connect**", if connection is successful, the page will auto disappear.

Meter Configuration

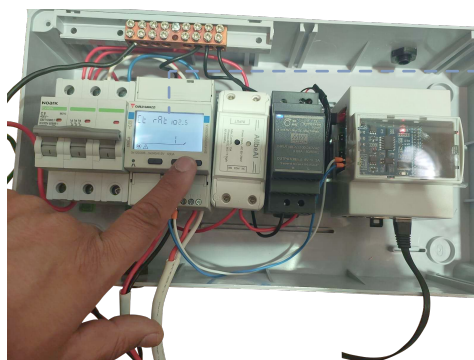
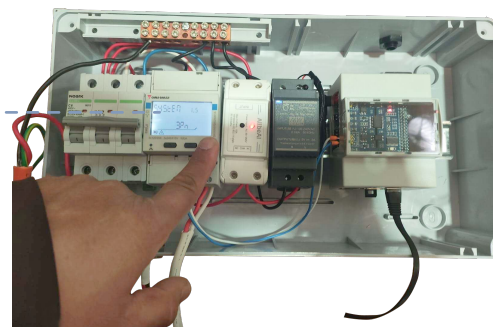
1. There' re 3 bottoms on the meter

From left to right are the **up** bottom, **down** bottom and **'ok'** bottom.



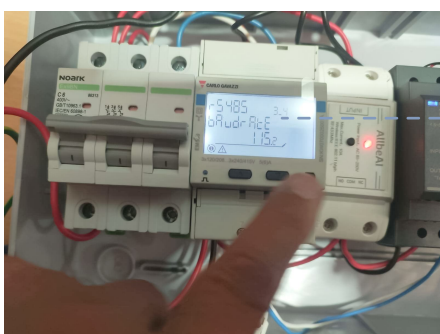
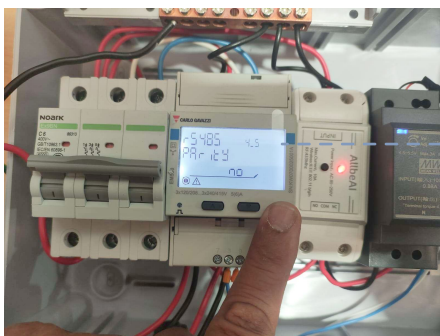
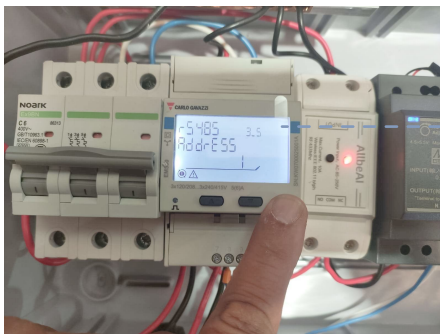
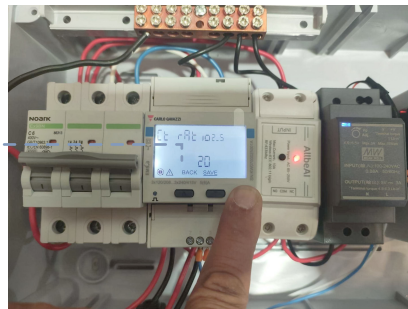
2. Power the meter and if it's the first time the meter is turned on, it will ask to **input the configuration**.

3. Set the **system type** to **3Pn** using the up and down bottoms, then press **'ok'** to continue.



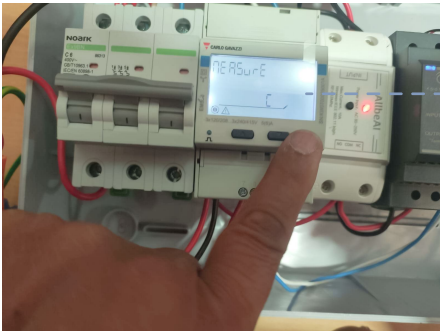
4. Then change the **CT ratio** based on the **CTs** chosen, use **up** and **down** bottoms to change the value and press **'ok'** bottom twice to confirm the changing.

For example, if 100/5 A CTs are used, the CT ratio should be 20.

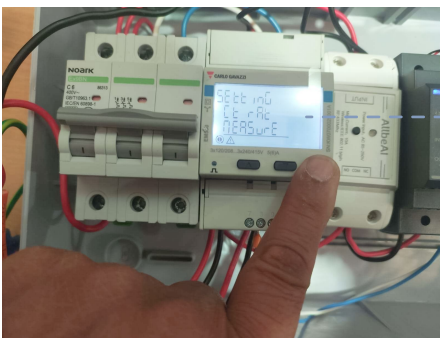


5. Then configure the RS485 address to 1, parity change to 'no', and baud rate to 115.2

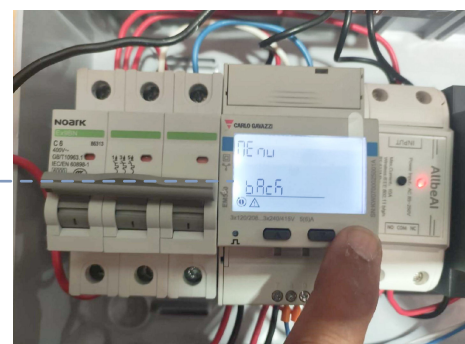
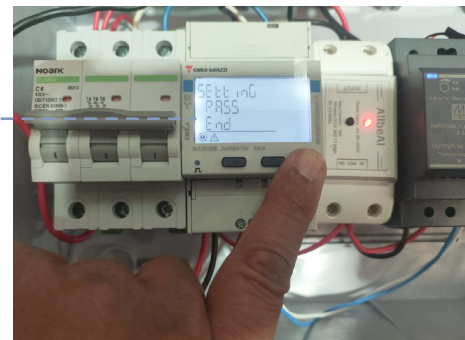
Those configurations can be changed later. To change the configuration, press 'ok' bottom and go into the menu, choose the parameter wanted to change, then press 'ok' to configure it.



6. Go into menu and setting, change the measure to 'C'



7. After changing the configuration, scroll up to 'back' or scroll down to 'end' and press 'ok' to go back to the menu, then go back to the main page in the same way.



Notes on CT:-

- 5A output CTs can be used for Max CT transformation ratio of 2000
- Minimum current (I_{min}) 0.05 A
- All the three CTs connected to the meter should be of the same CT ratio



MARSHALL

datamarshall.au

03 4422 4455

support@datamarshall.au

ZECO Energy

6C/148 Chesterville Road,
Moorabbin
VIC Australia 3189

A.B.N 16 111 222 456