MARSHALL

Supplied by ZECO Energy

Designed and assembled in **Melbourne**.

BBU-25-1

Product **Serial No.**

50789039

✉ marshall@zeco.au
📞 03 44 22 4455

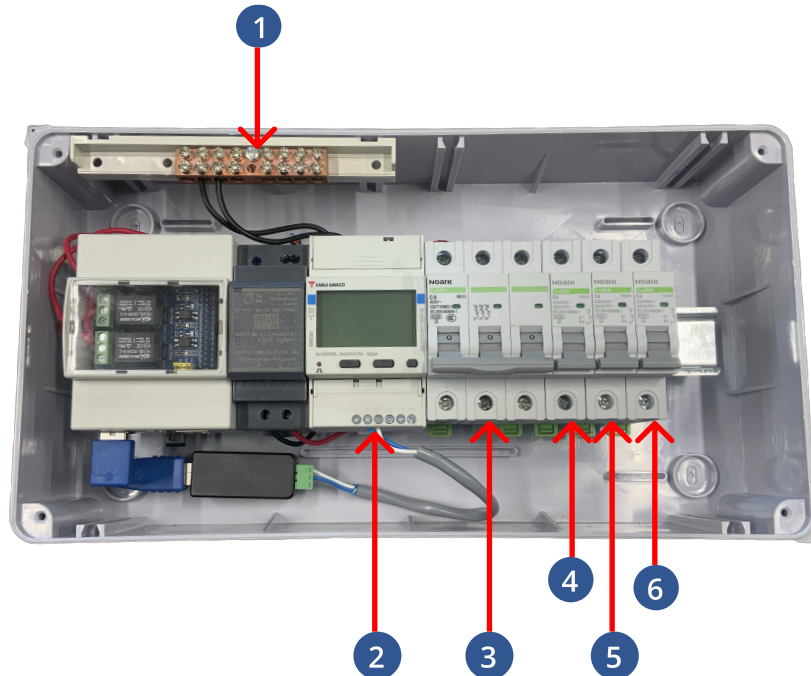Scan Here for Commissioning

🌐 www.datamarshall.au

2024

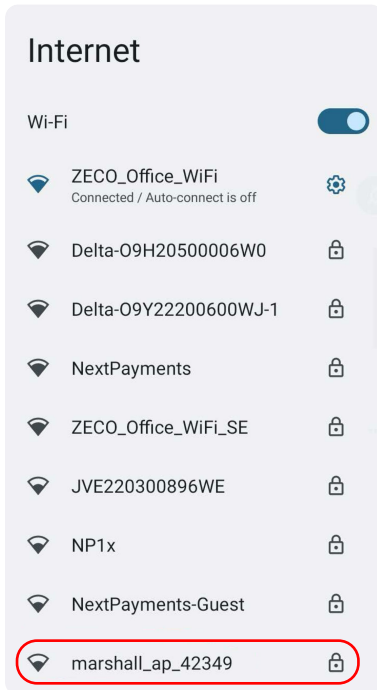# INSTALLATION GUIDE

Marshall Blackbox Ultra

Installation Guide

1.Three phases - Marshall Blackbox Ultra - BBU-24-1

1   Neutral Bar

2   Open the RS485 connector and connect the 5Amp CTs

3   Three-phase power supply, 230V

4   Connect the coil active of the first contactor to the bottom of the breaker, the first contactor in the main switchboard always supplies the water heater.

5   Connect the coil active of the second contactor to the bottom of the breaker, any loads except EV charger can be connected to the second contactor in the main switchboard.

6   Connect the coil active of the third contactor to the bottom of the breaker, EV charger or other loads can be connected to the third contactor in the main switchboard.
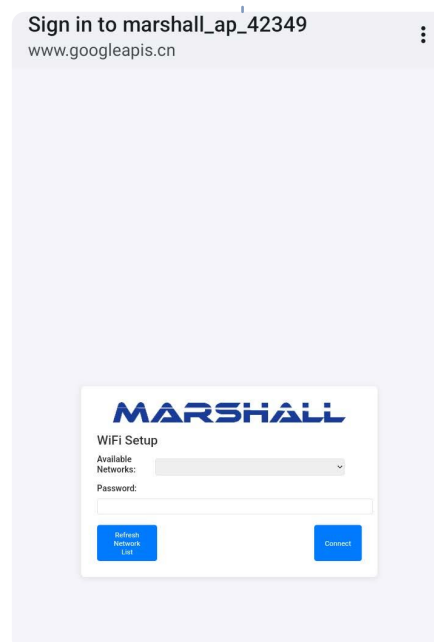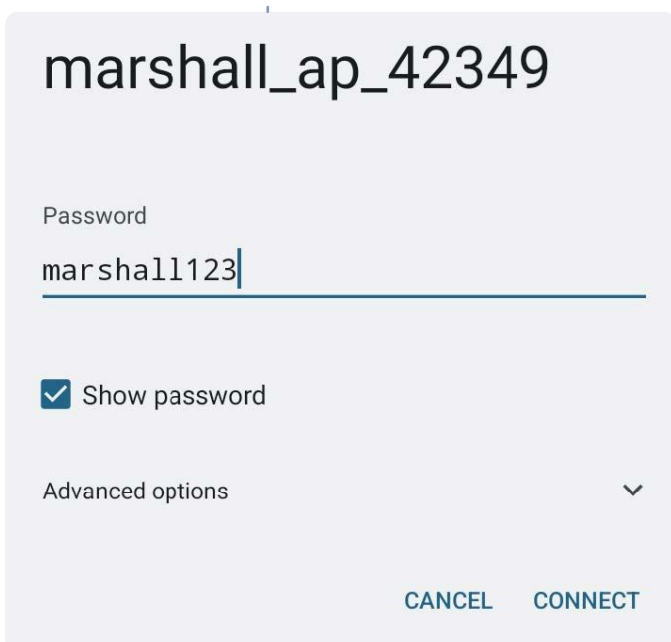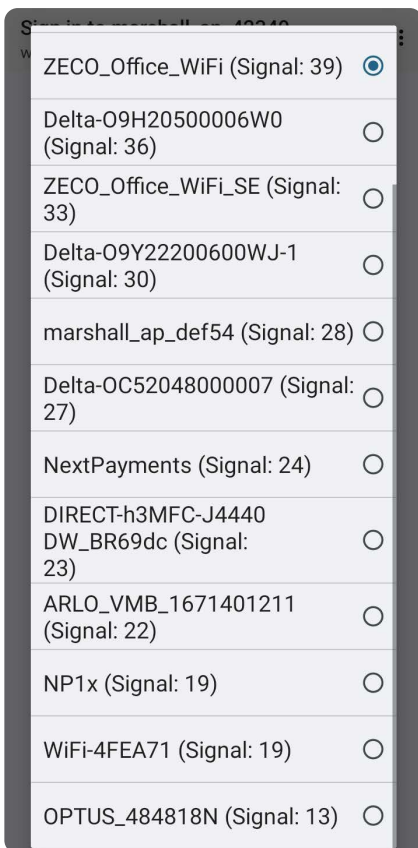
2.Internet Setup

a **1**. Turn on the power supplying breaker for the Marshall.

2. Go to your smartphone's WiFi settings.

3. Find and select the SSID named 'marshall_ap_xxxxx' (e.g., 'marshall_ap_42349').

4. Connect to the W-iFi network 'ZECO_Office_WiFi'.

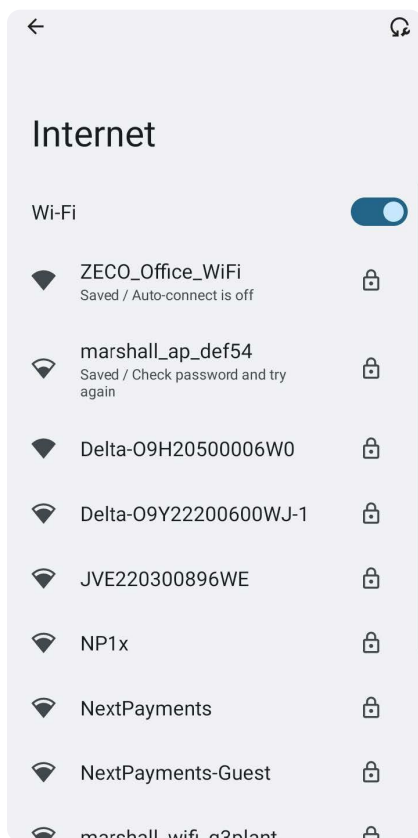**b** Log in to the Marshall AP with the password: marshall123, and then a sign in page will pop up.

c

1. Click the 'Refresh Network List' button on the left.

2. The SSID will appear in the 'Networks' bar.

3. Click the 'Networks' bar to see the list of available WiFi.

d

1. Find your home WiFi in the list.

2. Enter your WiFi password.

3. Click the 'Connect' button.

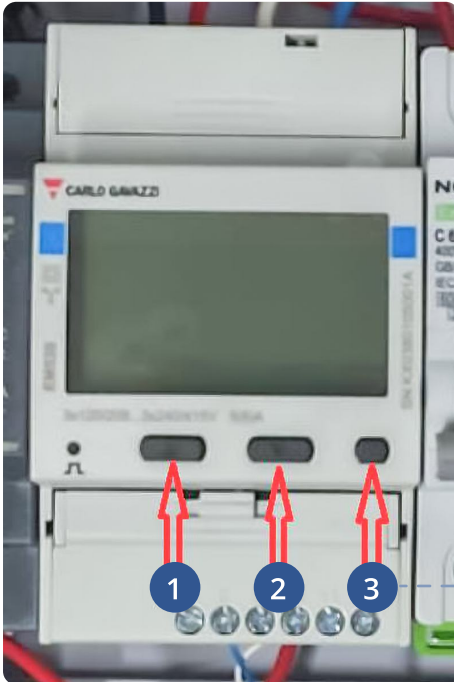**4**. A 'trying to connect' message will appear.

e

1. When the Marshall connects to your WiFi, the sign-in page will close automatically.

2. The 'marshall_ap_xxxxx' SSID will disappear from your smartphone's WiFi settings.
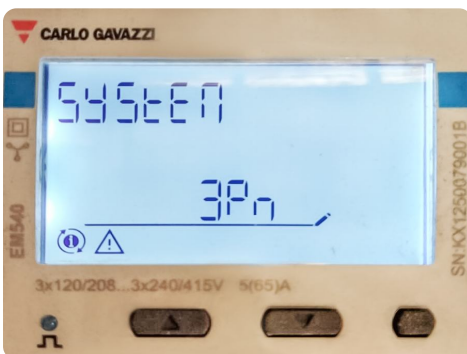
3.Meter Configuration

a. Three phases

1. **A**. Long press the OK button to enter the configuration page.

   B. Short press the OK button when prompted for the password.
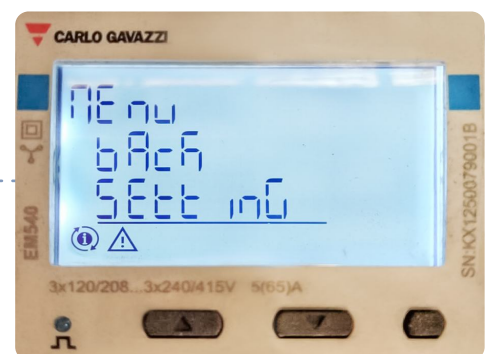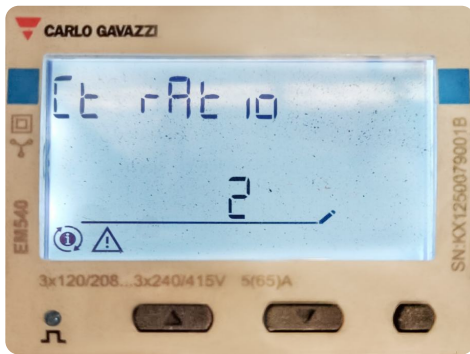
1 Up

2 Down

3 OK

2. **A**. Press the Down button to select parameters.

   B. Choose 'System' and short press OK.

   C. Change the system type to '3Pn'.

2.1 Short press the OK button to save the configuration and go back to the parameter selecting page.

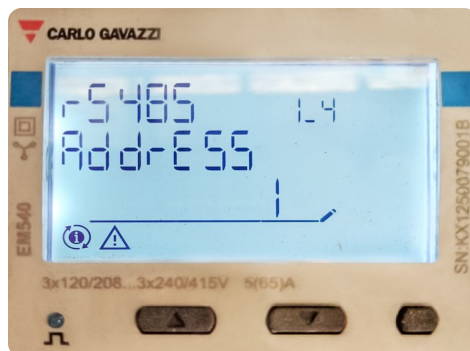3. **A**. Select 'CT Ratio' and short press OK twice.

   B. Use the Up/Down buttons to adjust the CT ratio.

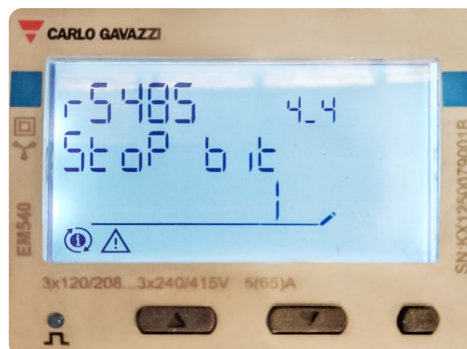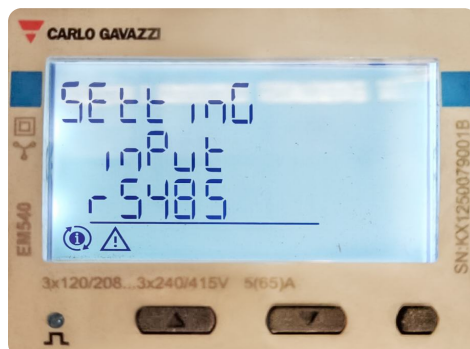   **C**. Ensure the meter's CT ratio matches the connected CTs.

4. **A**. Short press OK twice to save the CT ratio and return to the parameter page.

   C. Scroll down to 'rS485' and short press OK to set up RS485 communication.
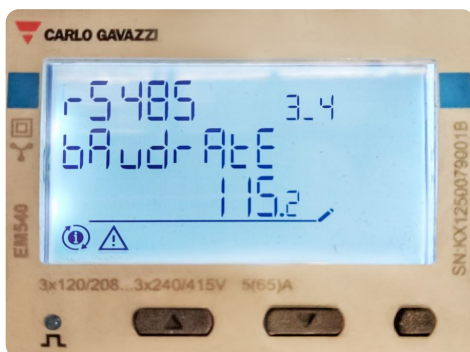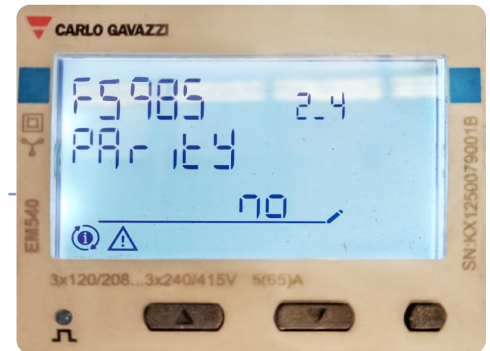

5. **A**. Change the RS485 address to '1' using the Up/Down buttons.

   C. Short press OK to move to the next parameter.

6. **A**. Set RS485 parity to 'no'.

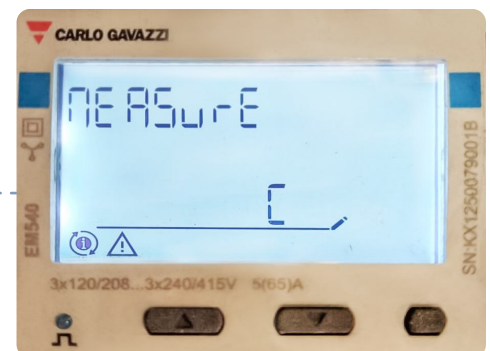   **B**. Short press OK to go to the next parameter.

7. **A**. Use the Up/Down buttons to set RS485 baudrate to '115.2'.

   B. Short press OK twice to save and return to the parameter page.

8. **A**. Press Up/Down to select 'Measure'.

   B. Short press OK and set to 'C'.

   C. Short press OK twice to save.

A. From the parameter page, short press Down to select 'End'.

B. Short press OK to return to the 'Menu' page.

C. Scroll up and select 'Back' to go to the main meter screen.

D. If powering on for the first time, set the CT ratio to match the connected CTs and save using the same process.

MARSHALL

www.datamarshall.au

03 4422 4455

marshall@zeco.au

ZECO Energy

6C/148 Chesterville Road,
Moorabbin
VIC Australia 3189