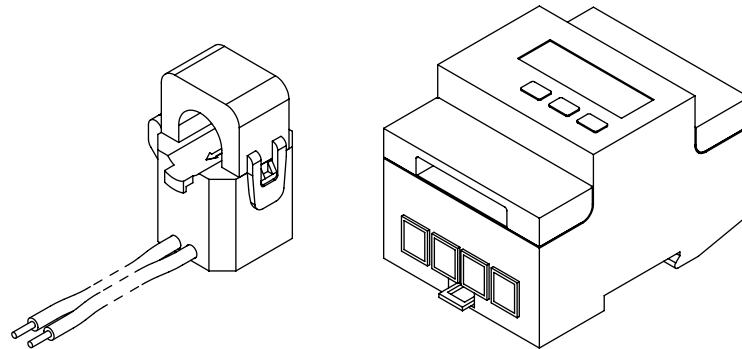


Energizer[®]

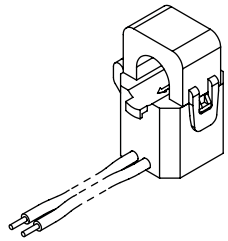
HOMEPower



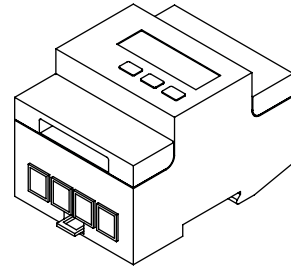
3-Phase Upgrade Guide

Uninstallation, Installation, and Upgrade Settings

CONTENTS



6 X
CT Sensors (6m)



2 X
Digital Meters (CT type)

PRODUCT CODE

CT3/100A: Rated up to 100A for Residential.

CT3/250A: Rated up to 250A for Residential and Commercial.

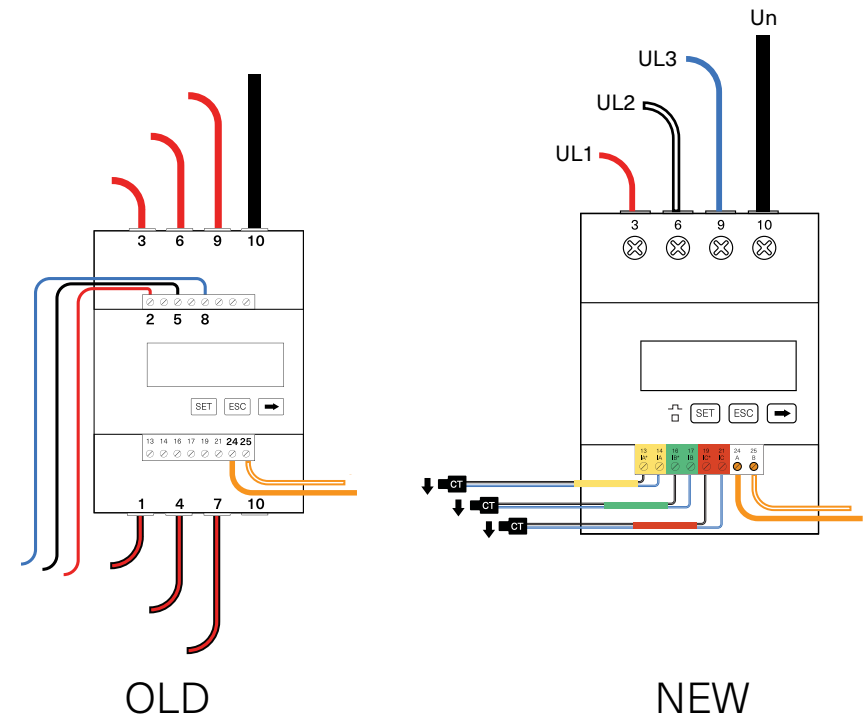
INTRODUCTION

The 3-Phase Kit is used to measure electrical energy data across multiple phases of both consumption and generation and report it back to the *Energizer* Homepower system.

There is provision within this kit to measure energy data from up to 3-phases of consumption by clipping a CT sensor on each phase between the loads and the grid, and up to 3-phases of generation from Solar PV systems by clipping a CT sensor on each phase between the PV inverter and the loads. This is accompanied by voltage references measured via the digital meter(s).

If the Solar PV system is only Single Phase then a digital meter is not required for capturing “Generation” as this data may be captured by the CT (for PV) supplied with the Main Unit (HP-6M).

THE DIFFERENCES BETWEEN THE METERS

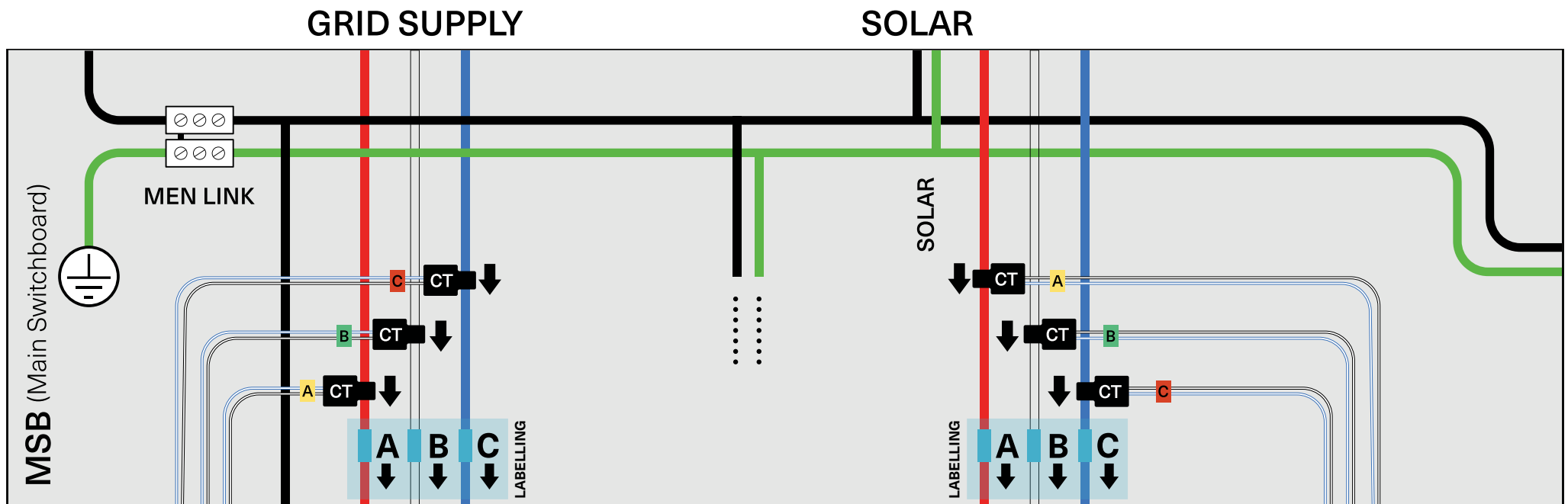


1. Improved CTs. Thinner cables.
Pronounced markings. Easier to install.
2. Preconfigured CT Ratio.
3. Increased measuring accuracy.
4. Improved layout.

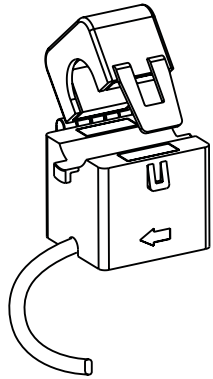
STEP 1 - SWITCH OFF THE POWER

STEP 2 - LABEL EXISTING WIRES

Label existing wires. Labels should accurately indicate the positioning and direction of **Grid CT #1, Grid CT #2, Grid CT #3, PV CT #1, PV CT #2, PV CT #3**. This is required to ensure that the phases are not being mixed up once the new CTs are installed.



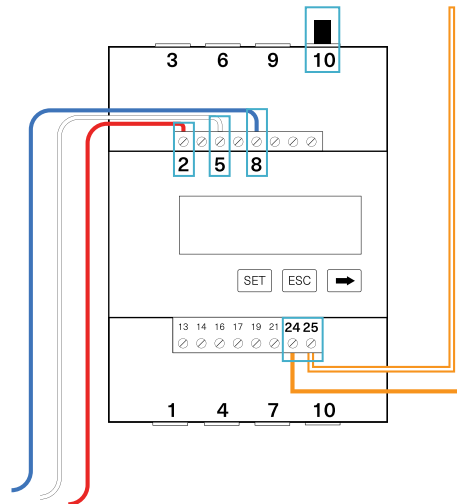
STEP 3 - UNCLAMP AND REMOVE CT CLAMPS



Unclamp the CT clamps first.
Then remove the CTs completely.

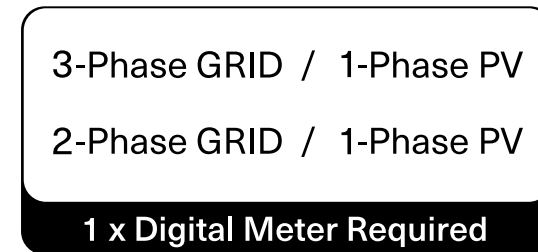
STEP 4 - REMOVE THE CABLES

1. Remove the power reference and neutral cables, **Pin 2, 5, 8 and 10**.
2. Remove the meter comms cables, **Pin 24 and 25**.
3. Remove the meters from the DIN rail completely.

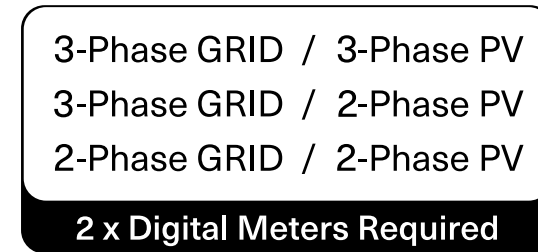


INSTALLATION STEP 1 - WIRING

Power digital meter(s) and change settings accordingly.
Determine the system configuration from the list below, and follow the corresponding line diagram on the reverse side to complete wiring.



↓
follow *fig. 1*



↓
follow *fig. 2*

Once you have completed the wiring, proceed to step 2.

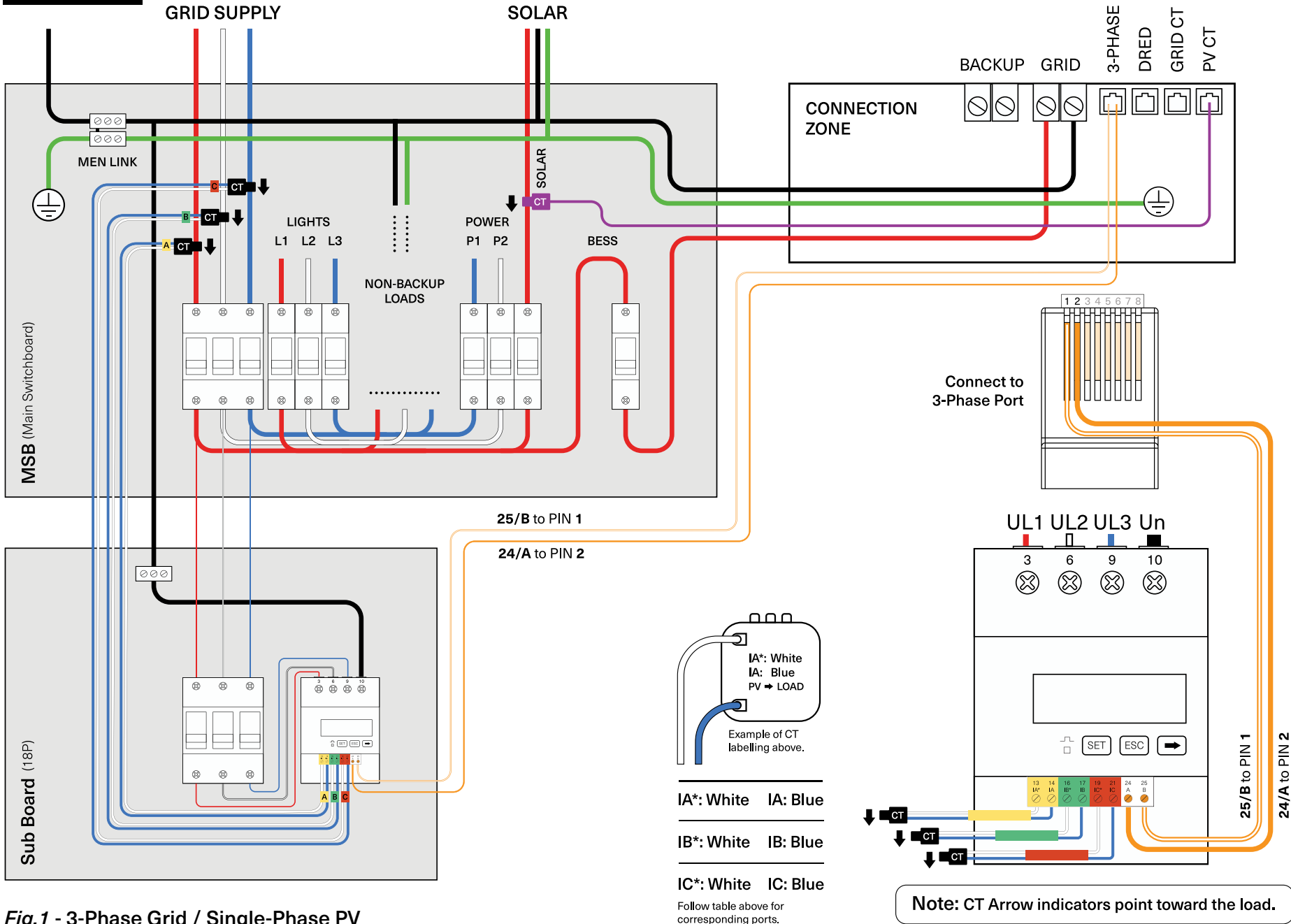


Fig.1 - 3-Phase Grid / Single-Phase PV

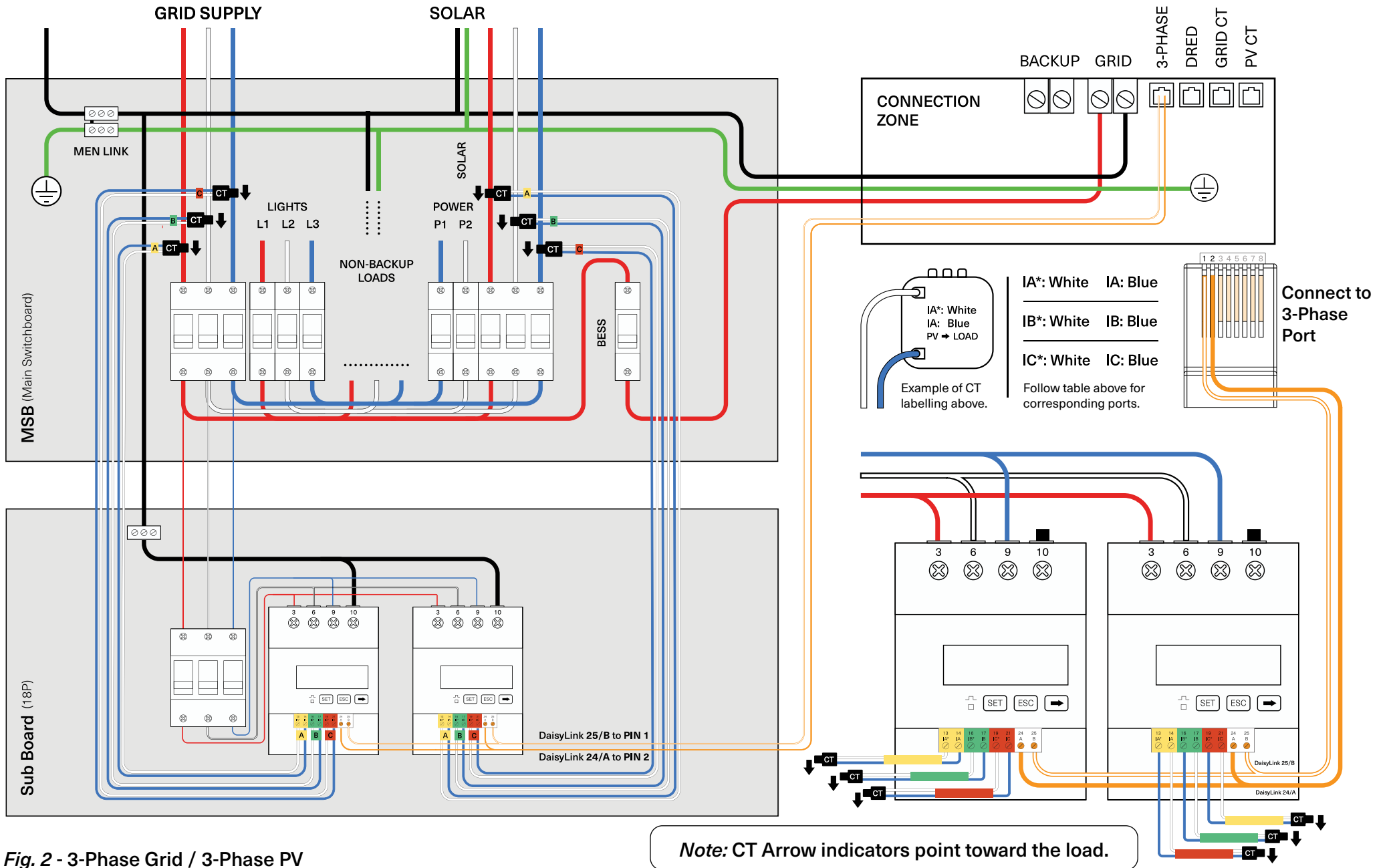
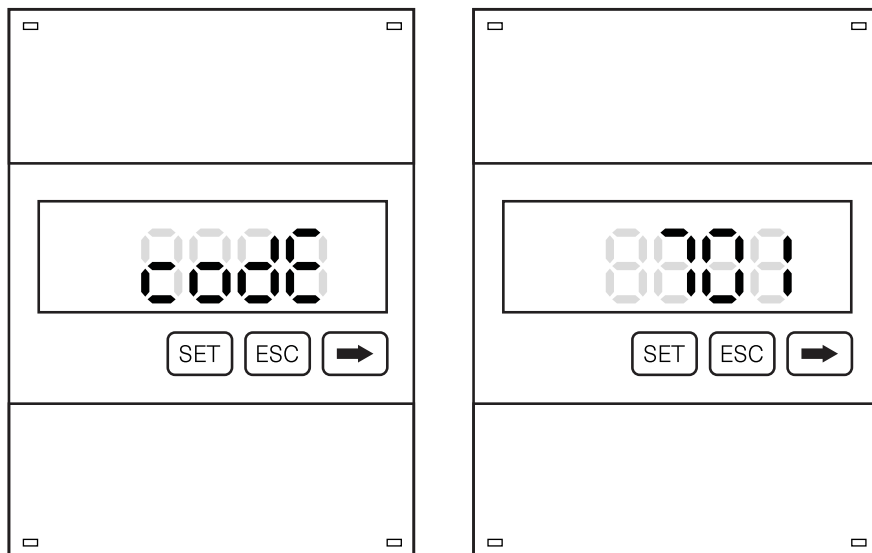


Fig. 2 - 3-Phase Grid / 3-Phase PV

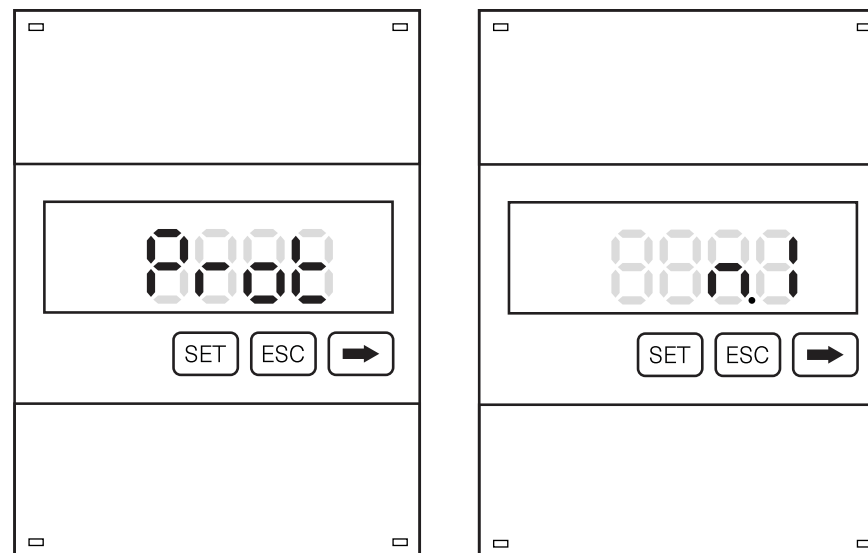
STEP 2 - CODE



1. Press **SET** to enter the “code” screen.
2. Press **SET** to edit code from “600” to “701” to enter menu.
3. Press **→** to change the last digit from “0” to “1”.
4. Press **SET** twice to move to the first digit.
5. Press **→** to change the first digit from “6” to “7”.

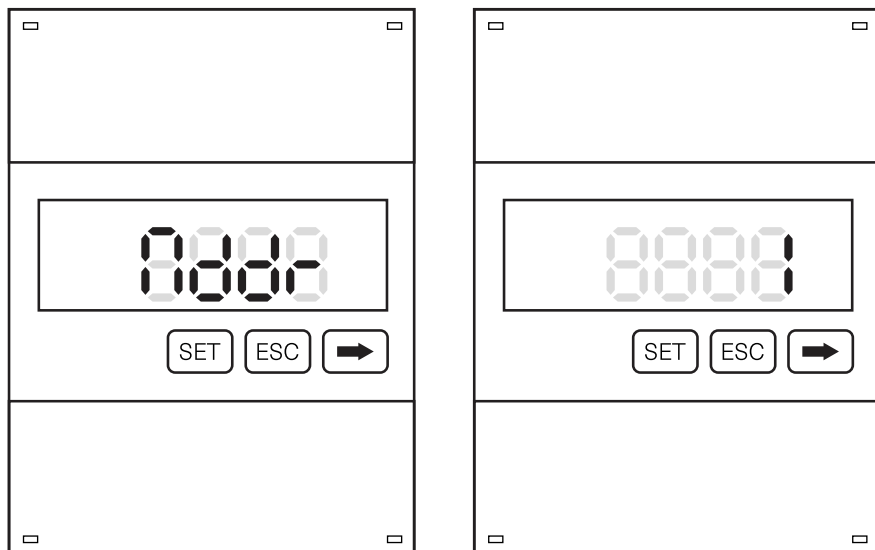
Note: The numbers will reset to “600”.







STEP 3 - PROTOCOL



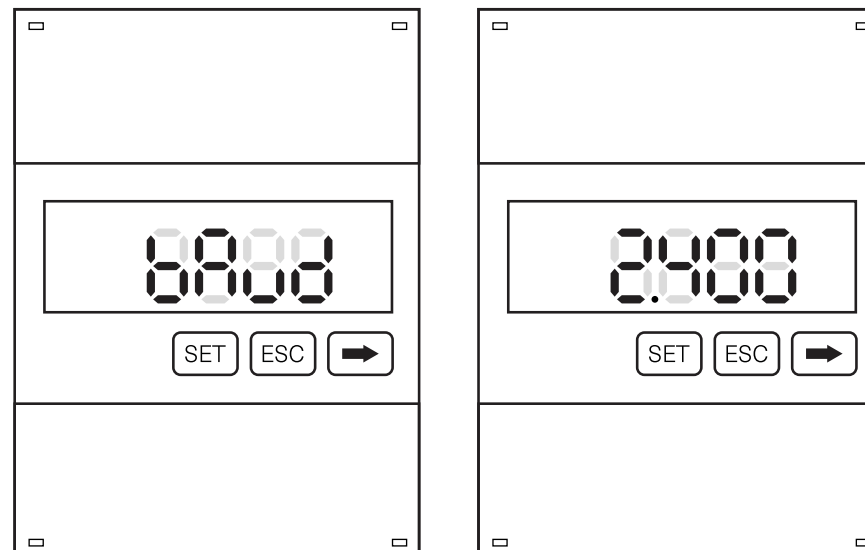
1. Press **→** twice to get to “Prot” screen.
2. Press **SET** to edit value.
3. Press **→** to scroll through to find “n.1”.
4. Press **ESC** to exit.





STEP 4 - ADDRESS



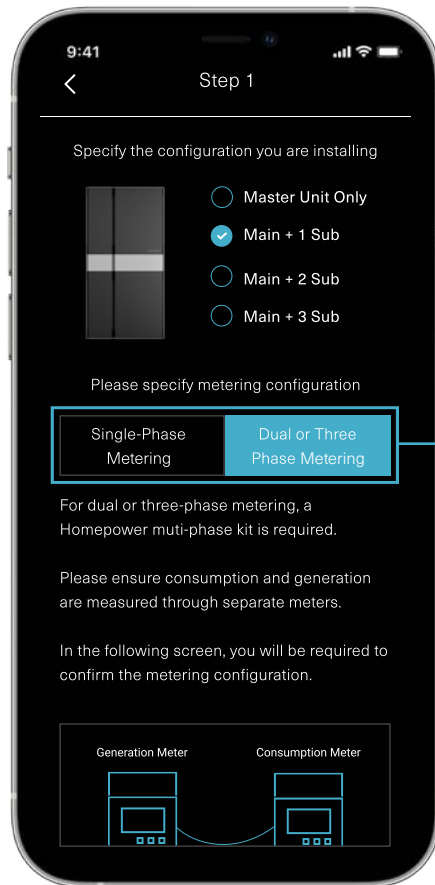
1. Press  to get to “Addr” screen.
2. Press  to edit value.
3. Toggle between  &  to edit value.
set Consumption meter to “1” / Generation meter to “2”.
4. Press  to keep value.
5. Press  to exit.

STEP 5 - BAUD RATE

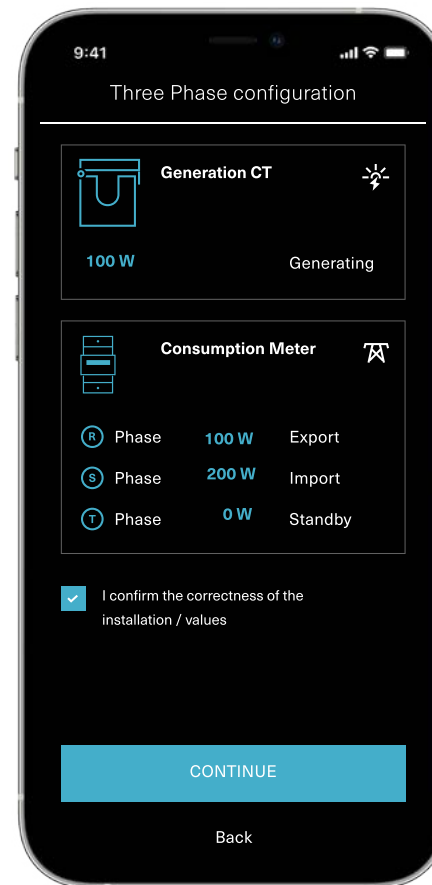


1. Press  to get to “bAud” screen.
2. Press  to set value.
3. Press  to scroll to “2.400”.
4. Press  to exit.

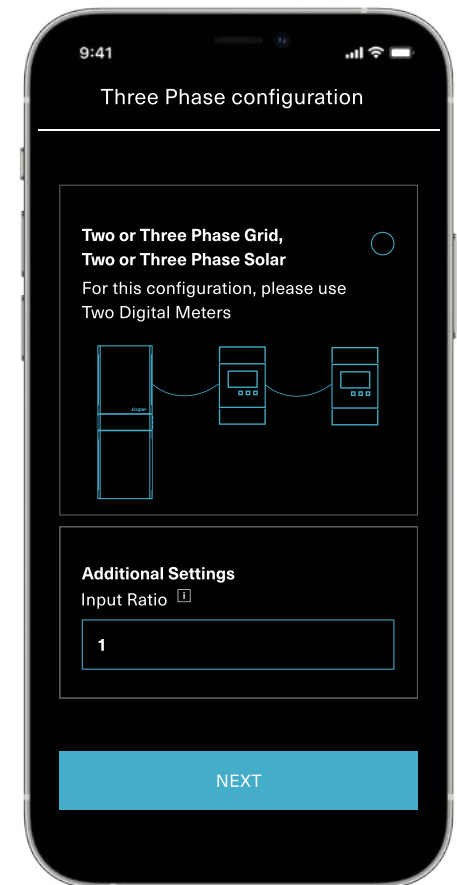
STEP 6 - INSTALLER APP



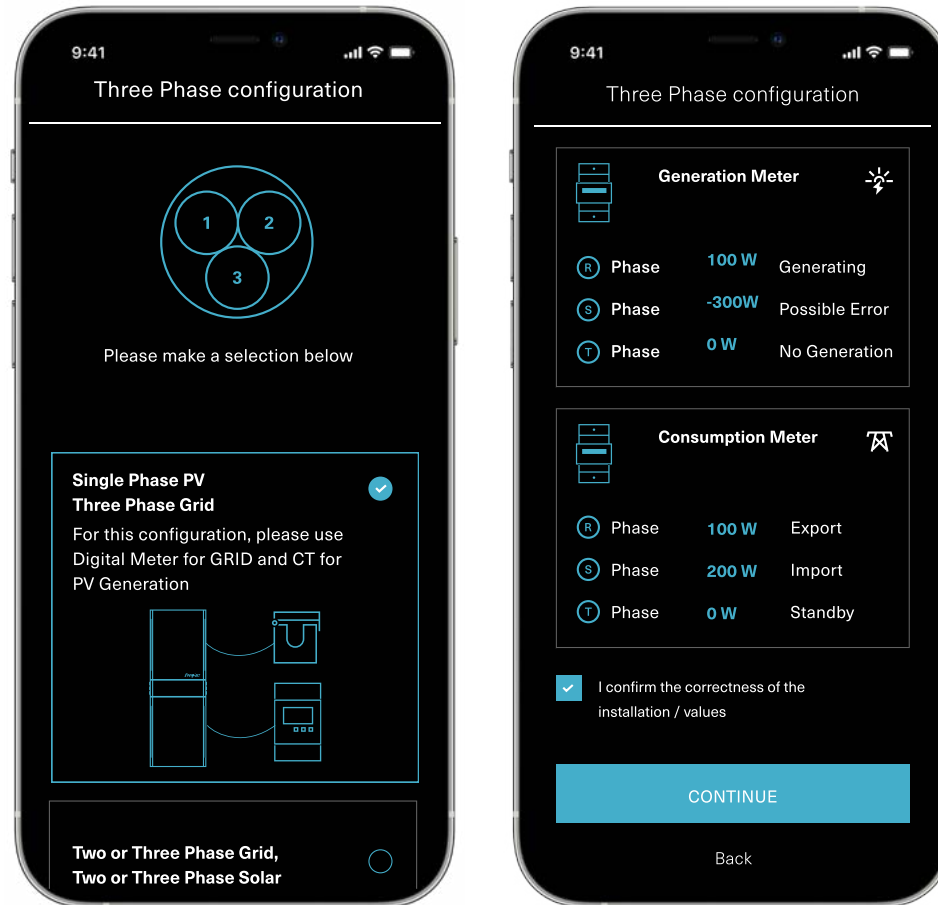
Start by selecting
Dual or Three
Phase metering



Select whether you are using:
1 x Digital Meter + 1x CT
or
2 x Digital Meters



Input Ratio: Set Value to "1"



Review & Test