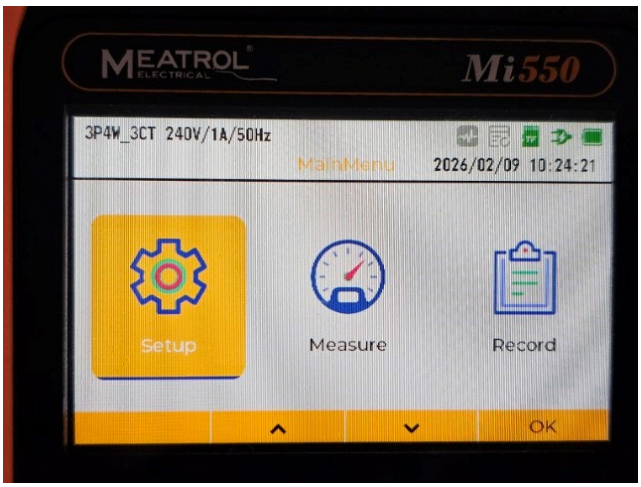
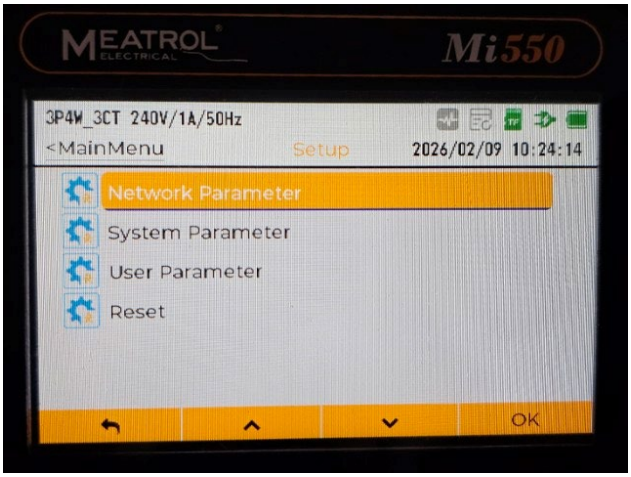
Meatrol Mi550 Setup and Installation Checklist

It is very important to make sure the logger is set up and installed correctly before logging. Ensuring the installation and setup are correct will prevent having to log again.





Meter Setup

Parameter

- ☐ **Wire Setting (Setup, Network Parameter, Wire Mode)**
  - ☐ For Single-Phase
    - Mode: 1PH2W
  - ☐ For Three-phase
    - Mode: 3PH4W_3CT or 3PH4W_4CT
      - Use 4CT if you are also putting a coil on the Neutral wire.
    - NB. Only select 3PH3W_3CT for installations where there is no neutral wire, for example some solar inverters or motors.
- ☐ **Frequency**
  - ☐ 50 Hz
- ☐ **Nominal Voltage**
  - ☐ Set to the voltage you have measured, for example, 230V or 240V
- ☐ **Current Sensor**
  - ☐ **Current Sensor Parameter**
    - Type: Rcoil if using Rogowski coils, CT if using Current Transformers.
    - Sensitivity: This must be set to the same as the coils you are using, for example: 50, 85 or 100 mV/kA. The ratio is printed on the Rogowski Coils.
    - Range, this needs to be set to the nominal range of the specific coils you are using
  - ☐ Here are the sensitivity and ranges of the Meatrol Rogowski coils.
    - **MRC-16** Rogowski coils must be set to **100 A** (50 mV/kA)
    - **MRC-24 and MRC-36** Rogowski coils must be set to **600 A** (50 mV/kA)
    - **NRC-100** Rogowski coils must be set to **1000 A** (85 mV/k**A)**
    - **NRC-200** Rogowski coils must be set to **6000 A** (50 mV/kA)
    - Refer to the table below.
  - ☐ Ratio: Must be set to 1.0
  - ☐ **N:** Set the same as the L1L2L3
- ☐ **Voltage Sensor**
  - ☐ Both L1L2L3 and N, Ratio: 1.0

System Parameter

- **Clock Setup**
  - Date Format: Set the format to what is used in your region.
    - For example: yyyy/mm/dd or dd/mm/yyyy
  - Modify Time: Set it to the correct current date and time. Important, otherwise the logged data will have the wrong date and time.

User Parameter

- **Phase Identification**
  - Select the correct phase identification. For example;
    - China: A,B,C
    - Europe and South Africa: L1, L2, L3

Reset

- Reset all the max values to zero and the energy usage to zero before logging
- Do not do a “Factory Reset”, this will remove all the custom settings you just changed

Ensure the correct Ratio Setting is set for the coils your using:

Measurement accuracy		
Rated current (5 level selectable)	100A(0.5% from 10A to 120A) 600A(0.5% from 10A to 720A) 1000A(0.5% from 10A to 1200A) 3000A(0.5% from 30A to 3600A) 6000A(0.5% from 60A to 7200A)	
Rogwoski coil connect setting	100A	MRC-16
	600A	MRC-36
	1000A	Y-FCT-200 or Y-FCT-350 or NRC-100
	3000A	NRC-150 or Y-FCT-510
	6000A	NRC-200 or Y-FCT-800

Meter Installation

- Make sure the direction of current flow for the coils is all the same and in the correct direction. Check the arrow indicated on the black plastic part of the coil.
  - Make sure the meter is reading positive current values.
- Make sure the order of the coils is correct
  - Phase one is connected to phase one,
  - Phase two is connected to phase two and
  - Phase three is connected to phase three.
- The order or the voltage sensing leads are installed correctly.
  - Phase one is connected to phase one,
  - Phase two is connected to phase two and
  - Phase three is connected to phase three.
- Batteries are fully charged (batteries will last about 10 hours). Longer periods require the meter to be plugged into the mains supply

Starting date recording

- Go to Record, select Data Recorder
- Set the Start Date and Time when you would like the dare recording to start
- Set the Duration how long you would like it to record.
- Set the Interval: Normally, 60 seconds is sufficient and prevents data files from becoming too large.