Quick Set for Setting

Try to check for the power supply malfunction in a 3-phase 4-wire 230 V line.

1. Preparations
2. Wind the clips of the same color as the channels around the leads.
3. Insert the SD memory card.
4. Connect the AC adapter.

1. Install the Battery Pack.

- Z1003
- Red (CH1)
- Yellow (CH2)
- Blue (CH3)

Left side of the instrument

Refer to Chapter 2 on the Instruction Manual.

2. Starting Quick Set

1. Turn on the instrument. (Language, clock and measuring frequency are required to be set only during the first setting. Refer to the Instruction Manual.)
2. Press the key.
3. Press the key.

Refer to Chapter 3 on the Instruction Manual.

To exit in the middle of settings
Press any of the other screen switching keys. All the settings before the exit are saved.

3. Basic Settings

1. Move cursor
2. Display drop-down list
3. Select wiring
4. Settle setting

Refer to Section 1.6 on the Instruction Manual.

2. Press the key.

4. Connections with the Instrument

1. Connect the voltage cords to the voltage input jacks.
2. Connect the current sensors to the current input jacks.
The current sensors will be automatically identified.
3. Check that the SD memory card is inserted.
4. Without connecting the voltage cords and current sensors to the measuring lines, press the [F2] (Next) key.
   Zero adjustment will be automatically performed.

- Red or yellow is displayed:
- Blue (CH3)
- Red (CH1)
- Yellow (CH2)

Connect the cords to each of the same color jacks.

Refer to Sections 4.3 through 4.5 on the Instruction Manual.

5. Wiring Voltage Cords to the Measuring Object

1. Refer to the wiring diagram to check the locations to which the voltage cords have to be connected.
2. Attach the voltage cords to the secondary side of the breaker.
3. Check the vectors and measured values.
4. Check the declared input voltage.
5. Check the wiring judgment.
6. Press the [F2] (Next) key.

If all the items are judged to be (green):
You can proceed to the next step even with (red) or (yellow) items.
1. Move the cursor to the (red) or (yellow) items.
2. Press the [ENTER] key.
3. Refer to the key points shown in the dialog to correct the wiring.

- Red
- Yellow
- Blue
- Black

For a bus bar, pinch the metal part.

Refer to Section 4.6 on the Instruction Manual.

6. Wiring Current Sensors to Measuring Object

1. Refer to the wiring diagram to check the locations to which the current sensors have to be connected.
2. Attach the current sensors around the wires connected to the secondary side of the breaker.
3. Verify that the measured values are displayed.
4. Set the current range.
5. Press the [F2] (Next) key.

Refer to Sections 4.7 and 4.8 on the Instruction Manual.

Tip
- Set the current range based on the maximum load current expected to flow during the measurement period. (Consult the operating status, load rating, breaker rating, and other data to make this determination.)
- If the range is too low, the instrument will experience an overrange event during measurement. The error component increases if the range is too high. Current cannot be measured accurately in any of the above cases.
### 7. Wiring Check

1. Check the measured values and vectors.

Check the wiring in the following cases:
- Measured values of the channels are low, or active power $P_{sum}$ shows a negative value.
- Displacement power factor $DPF_{sum}$ is below 0.5.
- The vector position is outside the PASS range.

Refer to Section 4.9 on the Instruction Manual.

2. Check the wiring judgment.

   - If [red] or [yellow] is displayed:
     1. Move the cursor to the item in [red] or [yellow] item.
     2. Press the [ENTER] key.
     3. Refer to the key points shown in the dialog to correct the wiring.

   - If all the items are judged to be [green]:
     - The color was [yellow] but the wiring check did not indicate any problems:

3. Press the [F2] (Next) key.

### 8. Event Settings

1. Check the declared input voltage.

2. Select the easy settings course.

   - **Voltage events**
     - This is used to check inrush current.
     - Measured values such as swell, dip, interruption.
     - Event occurrence status during recording can be monitored.

   - **Voltage events**
     - This is used to check voltage components (swell, dip, interruption) and frequency are monitored.

     - Event occurrence status during recording can be monitored.

3. Check the recording interval.

   - **Voltage events**
     - This is used to check voltage components (swell, dip, interruption) and frequency are monitored.

     - Event occurrence status during recording can be monitored.

4. Press the [F2] (Next) key.

   - **Voltage events**
     - This is used to check voltage components (swell, dip, interruption) and frequency are monitored.

     - Event occurrence status during recording can be monitored.

### 9. Recording Settings

1. Configure the Recording start and Recording stop.

   - **Interval**
     - Recording will start at a well-defined time in accordance with the recording interval.

     - **Manual**

     - **Tip**
       - If the save time is less than the measurement period, the following methods can be used to increase the save time:
         - Recording interval: Lengthened
         - SD memory card: Delete unnecessary data, and format it.

     - (Exit the Quick Set and use the FILE screen.)

2. Press the [F2] (Next) key.

### 10. Checking Settings and Recording

1. Check the settings.

   - To make any changes to the settings, press the [F1] (Previous) key to return to the applicable screen.

2. Press the [START/STOP] key.

   - The instrument enters the standby state.
   - The recording will start at the time set by the interval.
   - The instrument enters the recording state. (START/STOP LED: On)

   - To start recording after setting the items that are not listed in Quick Set.
     - Press the [F5] (End) key.
     - The settings configured up to this point will be saved.

3. Press the [F2] (Next) key.

   - Recording will be stopped. (START/STOP LED: Off)

4. Press the [ENTER] key.

   - Recording will be stopped. (START/STOP LED: Off)

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**Event occurrence status during recording can be monitored.**

- Press the [EVENT] key to display the EVENT screen.
- Event occurrence status can be checked.

**Event occurrence status during recording can be monitored.**

- Press the [TREND] key to display the TREND screen.
- The measured items in the form of a time series graph can be observed.

**Fluctuations in measured values during recording can be monitored.**

- Press the [TREND] key to display the TREND screen.
- The measured items in the form of a time series graph can be observed.

**Recorded data can be post-analyzed with a computer.**

- Data after completion of recording can be analyzed with a computer using the supplied PC application software.

**Functions:**

- Observing time series data, event data, and event waveform.
- Observing statistics data.
- Creating reports