PQ3100 POWER QUALITY ANALYZER

Measurement Guide

Thank you for purchasing the Hioki PQ3100 Power Quality Analyzer.

This guide introduces the instrument's basic measurement procedure to first-time users with Quick Set.

Before using the instrument, be sure to read the Instruction manual carefully.

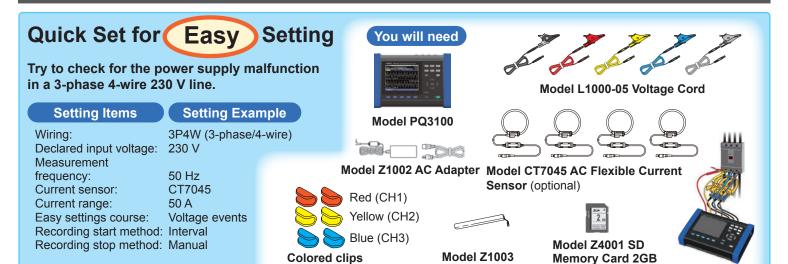


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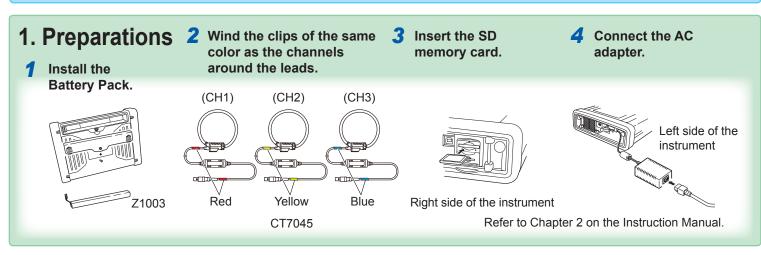
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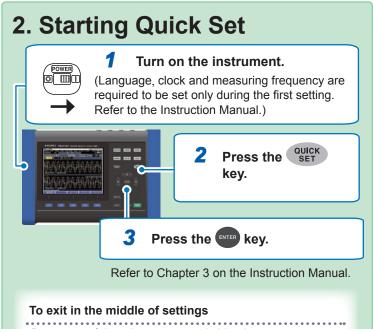
(Wiring image)

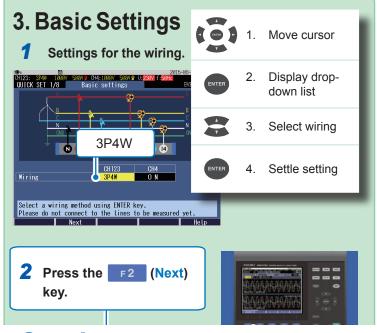


Battery Pack

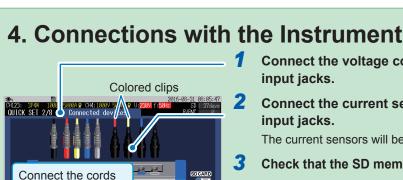


for current sensors





(optional)



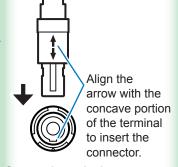
Connect the voltage cords to the voltage

Connect the current sensors to the current

The current sensors will be automatically identified.

- Check that the SD memory card is inserted.
- Without connecting the voltage cords and current sensors to the measuring lines, press the [F2] (Next) key.

Zero adjustment will be automatically performed.



Current input jack

dialog to correct the wiring.

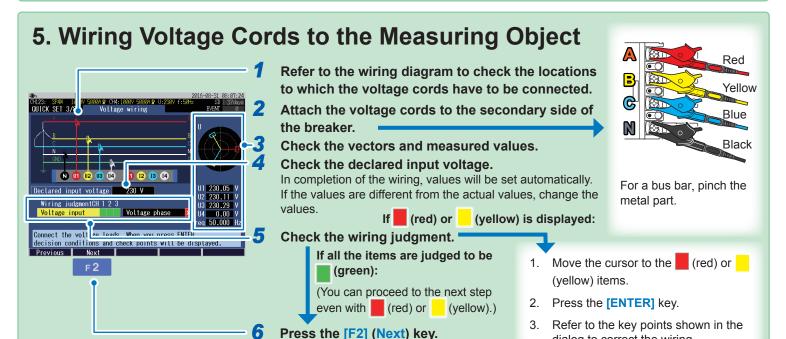
Refer to Sections 4.3 through 4.5 on the Instruction Manual.

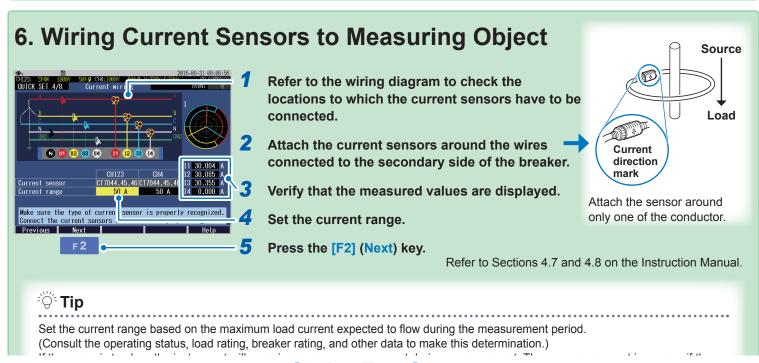
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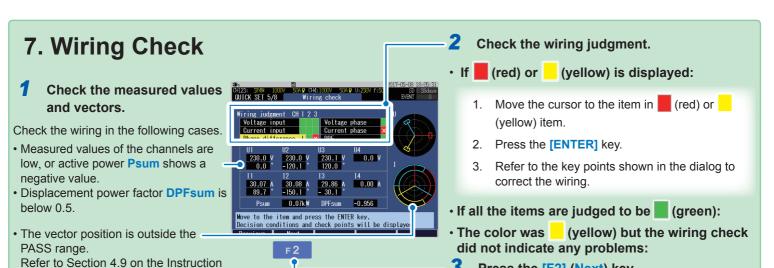
Next

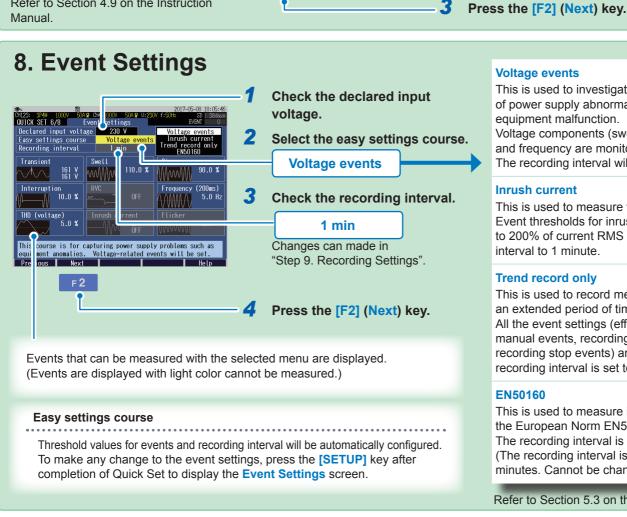
color jacks.





Refer to Section 4.6 on the Instruction Manual.





Voltage events

This is used to investigate the cause of power supply abnormalities such as equipment malfunction.

Voltage components (swell, dip, interruption) and frequency are monitored.

The recording interval will be set to 1 minute.

Inrush current

This is used to measure the inrush current. Event thresholds for inrush current is set to 200% of current RMS and the recording interval to 1 minute.

Trend record only

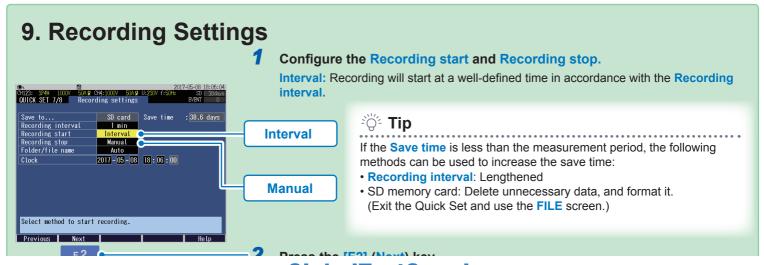
This is used to record measured values over an extended period of time.

All the event settings (effective only for manual events, recording start events, and recording stop events) are set to OFF and recording interval is set to 10 minutes.

This is used to measure in conformance to the European Norm EN50160.

The recording interval is set to 10 minutes. (The recording interval is fixed to 10 minutes. Cannot be changed.)

Refer to Section 5.3 on the Instruction Manual.



10. Checking Settings and Recording

Refer to Chapter 7 on the Instruction Manual.



| Mail No. | Mail No.



1 Check the settings.

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

Recording start

Press the START key



The instrument enters the standby state. (START/STOP LED: Blinking)

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



9

*: Interval

Example 1: 4:02 → 4:05 Example 2: 12:43 → 12:45

Recorded

Recorded

Recorded

Recorded

Recording stop

3 Press the START key.

The recording stop dialog will be displayed.

4 Press the ENTER key.

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

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.

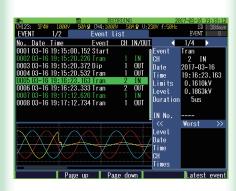


Refer to "8. Verifying the Trends (Fluctuations) in Measured Values" on the Instruction Manual for details.

Event occurrence status during recording can be monitored.

Press the **[EVENT]** key to display the **EVENT** screen.

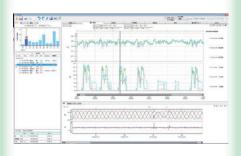
Event occurrence status can be checked.



Refer to "9. Checking Events" on the Instruction Manual for details.

Recorded data can be postanalyzed 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

Refer to "11. Analysis (with Computer)"

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