

HOLD Indicates Data Hold is active.

Indicates integration is stopped.

PEAK Indicates Peak Hold is active.

### **Storage Media Indicators**

101

Level indicators for the CF card and USB memory stick. The used storage space is indicated in yellow, and it turns to red when the media is 95% full. The round indicator to the left of the level meter will turn yellow-green while the media is being accessed.

- 22-- 21-

Connect a computer for external

See: Instruction manual Chap. 9

control and data transfer.

**Additional Capabilities** 



(Synchronized Measurements) See: Instruction manual Sec. 8.1



- Save measurement data and setting configurations. · Reload setting configurations.
- See: Instruction manual Chap. 7

See the instruction manual for details, including setting procedures for measurement and display, convenience features and more.

# **PW3390 POWER ANALYZER Measurement Guide**

## EN

Thank you for purchasing the HIOKI Model PW3390 Power Analyzer. This guide introduces the Power Analyzer's basic measurement procedure to first-time users. Before using the instrument, be sure to read the Instruction Manual carefully.



**PAGE** keys Changes the screen page

**FUNCTION** keys (F keys) Select and change display contents and settings

### **RANGE** keys

- · Change the voltage (U) and current (I) measurement ranges
- Pressing the AUTO key activates auto-ranging.

### **ENTER** key

Accepts selections and changes to settings.

### ESC (Escape) key

- · Cancels the last change to a setting, and returns it to it previous state.
- · Hold for three seconds to toggle the key lock.

MEAS

F1

F 2

F 3

E 5

SYSTEM

AVG 🕨

+

-

F U

> ESC /οπ

Move the cursors.



-4-





Feb. 2017 Edition 1 Printed in Japan PW3390A966-00 17-02H

**Read First** 





- 1 Press SYSTEM to display the System screen, and select the [Wiring] page with the ◀ I ► keys.
- 2 Press **F1** [Select].

4

- Use the ( keys to select the wiring 3 mode (phase configuration) of the measurement system.
- 4 Press **F1** to accept the selection. The wiring diagram(s) are displayed.





# **4.** Attach voltage measurement cables and current sensors to the measurement lines according to the wiring diagram(s).

-2-



seconds until finished



CT7742

CT7044

CT7045

All CH Set

# **5.** Execute quick setup, and verify correct wiring

0®

 $\widehat{}$ 

**7** Press **F6 [Easy Set]**, and then **ENTER** to execute.

### When execute quick setup

Executing quick setup automatically configures the following settings to the Hioki-recommended values for the selected wiring mode (phase system): voltage and current ranges, sync source, lower measurement freguency limit, integration mode, harmonic sync source and rectification method.

- 2 Verify that appropriate measurement values are displayed.
- 3 Verify that the vectors are displayed with the appropriate range, and that vectors are not too short, or of unequal lengths.

## 6, View Measurement Vector Values

Press MEAS to display the Measurement screen, and press **I b** to switch screen pages.

Wave + Noise

forms can be saved.



This page displays measured harmonic voltage, harmonic current, and harmonic power on channels 1 to 4 as numerical values and as vectors.

#### Select

Slipt



This page displays waveforms and This page displays the parameters which you are selected.



noise of voltage and current. The wave-

surement parameters selected for horizontal and vertical axes.

This page displays an X-Y graph of mea- This page displays measured values for the motor analysis function. Displayed only on the PW3390-03 (model with motor analysis and D/A output).





Efficiency

culation formulas.

This page displays measured power, voltage and current values, integration values, and provides access to harmonic graphs and lists for each channel.

83.85

ect Ef	iency ) UFF	2 YY Graph Motor Avg Lowest	917-91-18 18 29 17 PAGE
_	A OFF	CFF 10Hz	USB nenory
093	V	CH1 Range	4 items
258 011	V V A A A	CH2 Range UManu SA UManu 15V IManu SA	8 items
762 271 617			16 items
026 .99 .55	A VA VA	CH3 Range U Manu 15V	32 items
.96	VA VA	I Manu 8A CH4 Range	
933 809		I Manu 19V	
581			Select

This page displays the numerical values of efficiency and loss determined by cal-

