

Operation Manual for Demo Programs

1. Startup and termination procedures

When either of the VI programs below is executed, the following screen will be displayed.

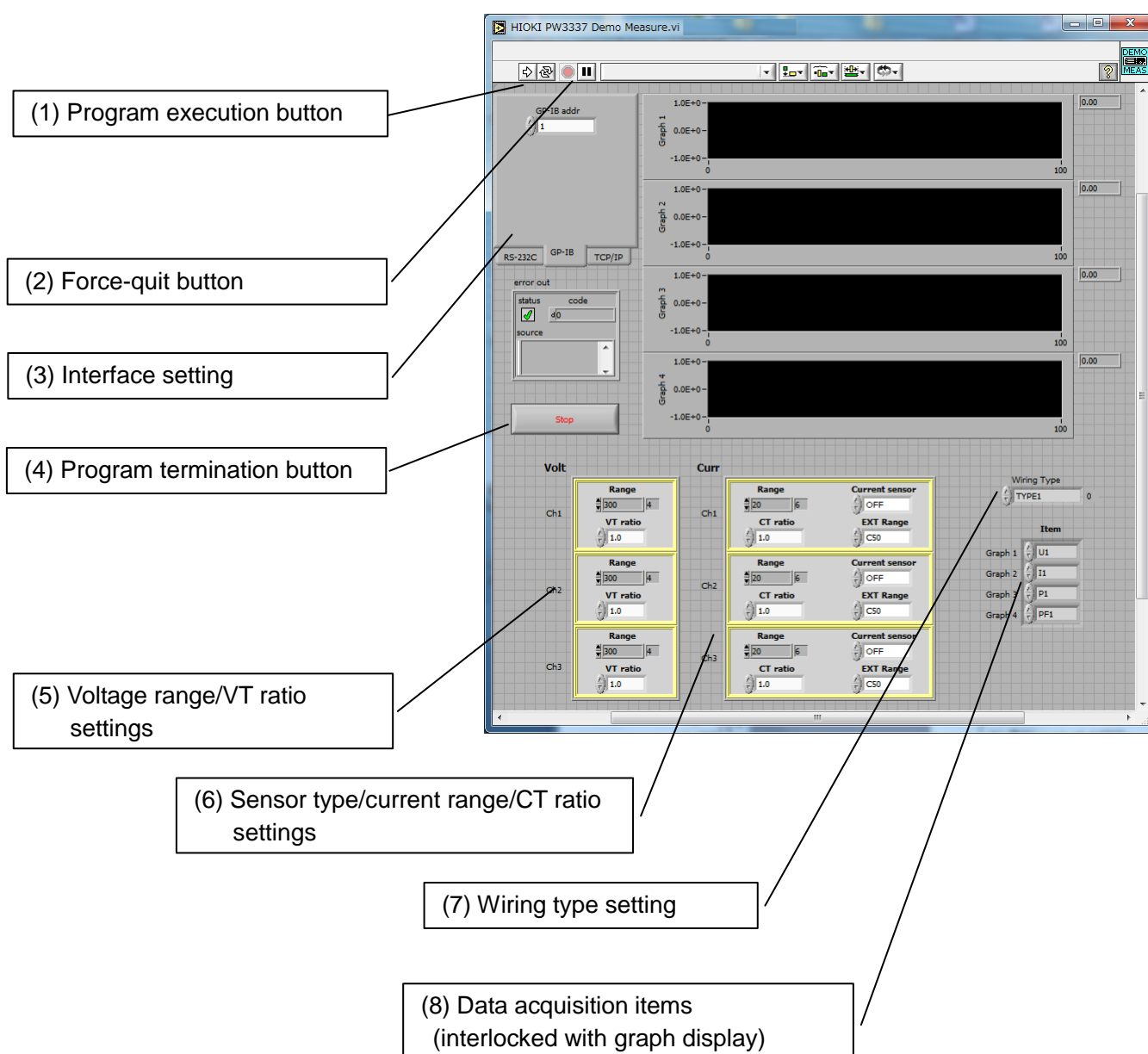
HIOKI PW3337 Demo Measure.vi

HIOKI PW3337 Demo Measure-H.vi (for harmonic)

When you set items (3) and (5) to (9), and then click the program execution button (1), the program will be executed. To terminate the program, click the program termination button (4). To force-quit the executed program, click the force-quit button (2).

This is only an example of a driver. We do not guarantee the operation.

HIOKI PW3337 Demo Measure.vi



HIOKI PW3337 Demo Measure-H.vi

The screenshot shows the HIOKI PW3337 Demo Measure-H.vi software interface. It features a top toolbar with execution and termination buttons, a left sidebar for interface settings, a central area for channel settings (Volt and Curr), and a right sidebar for wiring and data type settings. Three graph displays are visible at the top right.

Numbered callouts identify the following controls:

- (1) Program execution button**: Located in the top toolbar.
- (2) Force-quit button**: Located in the top toolbar.
- (3) Interface setting**: Located in the left sidebar, including VISA resource name, RS-232C baudrate, and interface type (RS-232C, GP-IB, TCP/IP).
- (4) Program termination button**: A red 'Stop' button in the left sidebar.
- (5) Voltage range/VT ratio settings**: Settings for three channels (Ch1, Ch2, Ch3) under the 'Volt' section, including Range and VT ratio.
- (6) Sensor type/current range/CT ratio settings**: Settings for three channels (Ch1, Ch2, Ch3) under the 'Curr' section, including Range, CT ratio, and Current sensor type.
- (7) Wiring type setting**: A 'Wiring Type' dropdown menu in the right sidebar.
- (8) Data type (Level/Content/Phase)**: A 'Data Type' dropdown menu in the right sidebar.
- (9) Data acquisition items (interlocked with graph display)**: An 'Item List' section in the right sidebar with checkboxes for INST/MAX/MIN and INST for each channel.

2. Description of HIOKI PW3337 Demo Measure.vi

2.1 Main screen

The values of the specified measurement items are displayed in a time-series graph at intervals of 200 ms.

The screenshot shows the HIOKI PW3337 Demo Measure.vi interface. It includes a top section for communication settings (GP-IB addr, RS-232C, GP-IB, TCP/IP), an error information section (error out, status, code, source), a central graph area (Graph 1, Graph 2, Graph 3, Graph 4), and a bottom section for measurement settings (Volt, Curr, Range, VT ratio, CT ratio, Current sensor, EXT Range, Wiring Type, Item). Callouts point to specific settings: GP-IB addr, error information, measurement values, voltage range and VT ratio, sensor type, current range, and CT ratio, wiring mode, and measurement items.

Set the RS-232C (communication speed), GP-IB address, and TCP/IP address for the LAN on the instrument side. Communication is performed via the interface displayed to the front.

Displays the error information when an error occurs.

Graphically displays the measurement values of the items specified in "Item".

Set the voltage range and VT ratio.

Set the sensor type, current range, and CT ratio.

Specify the wiring mode.

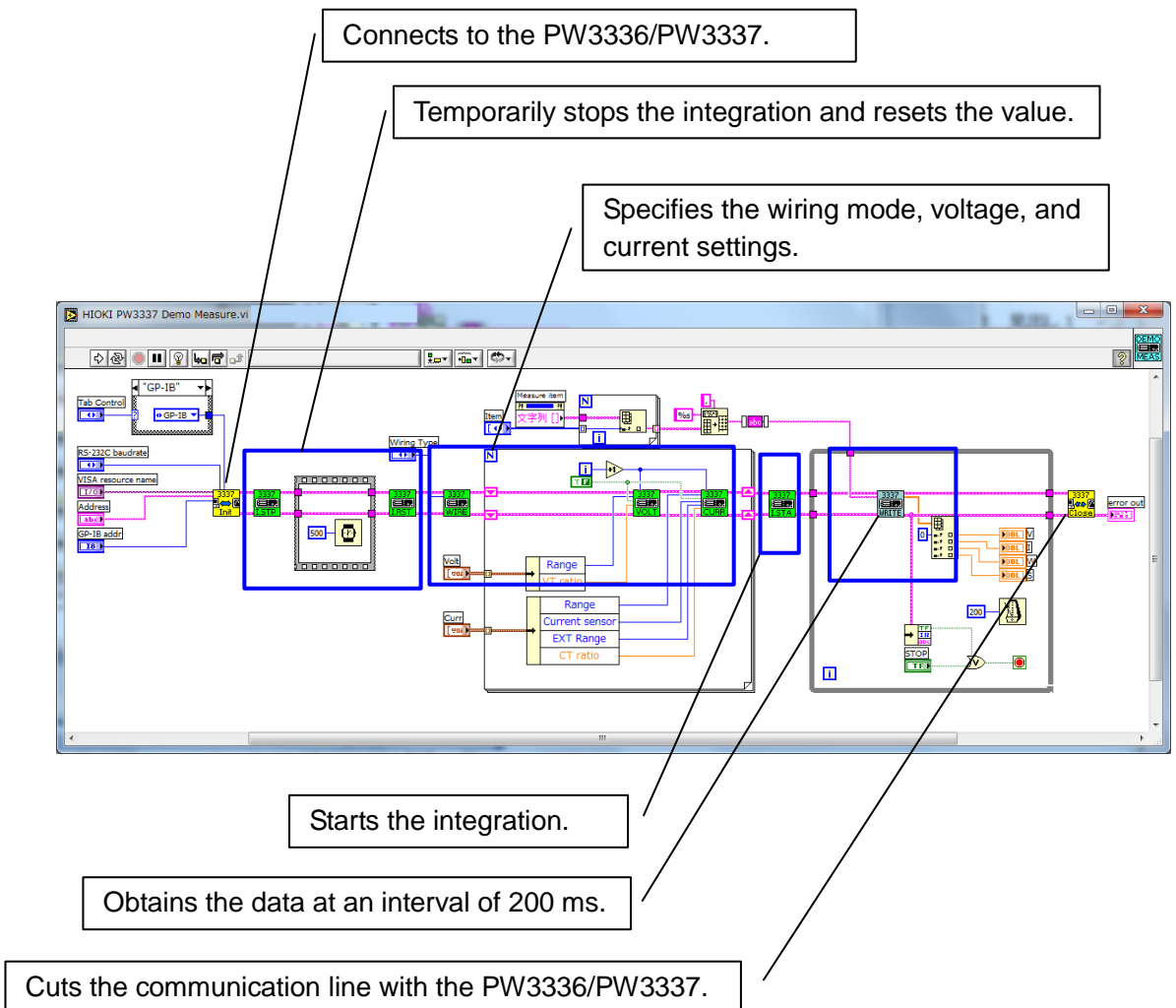
Specify the measurement items to be graphically displayed. For details on the item names, refer to "MEASure? query direct setting item list" on page 65 in the manual.

Be sure to set the above items before executing the program. If you make any changes in the settings while the program is being executed, those changes are not updated.

2.2 Diagram

This is an example of the demo program when using any of the following drivers.

HIOKI PW3337 Initialize.vi	Opens the communication interface Initial setting of RS-232C/LAN/GP-IB
HIOKI PW3337 Close.vi	Closes the communication interface
HIOKI PW3337 Integrate_Start.vi	Starts the integration
HIOKI PW3337 Integrate_Stop.vi	Stops the integration
HIOKI PW3337 Integrate_Reset.vi	Resets the integration value
HIOKI PW3337 Conf Wiring.vi	Sets/queries the wiring mode
HIOKI PW3337 Conf Voltage.vi	Sets/queries the voltage range, voltage auto range, and VT ratio
HIOKI PW3337 Conf Current.vi	Sets/queries the current input type, current range (direct, sensor), current auto range, and CT ratio
HIOKI PW3337 MeasureWrite.vi	Obtains the desired items for normal measurement



3. Description of HIOKI PW3337 Demo Measure-H.vi

3.1 Main screen

The values of the harmonic output data (voltage, current, and power) are displayed in a bar graph.

Set the RS-232C (communication speed), GP-IB address, and TCP/IP address for the LAN on the instrument side. Communication is performed via the interface displayed to the front.

Displays the error information when an error occurs.

Graphically displays the measurement values of the items specified in "Item List".

Set the voltage range and VT ratio.

Set the sensor type, current range, and CT ratio.

Specify the wiring mode.

Specify the measurement items to be graphically displayed.

Data type

LEVEL ...Level
CON ...Content percentage
PHASE ...Phase

Specify the measurement items to be graphically displayed.

Item List

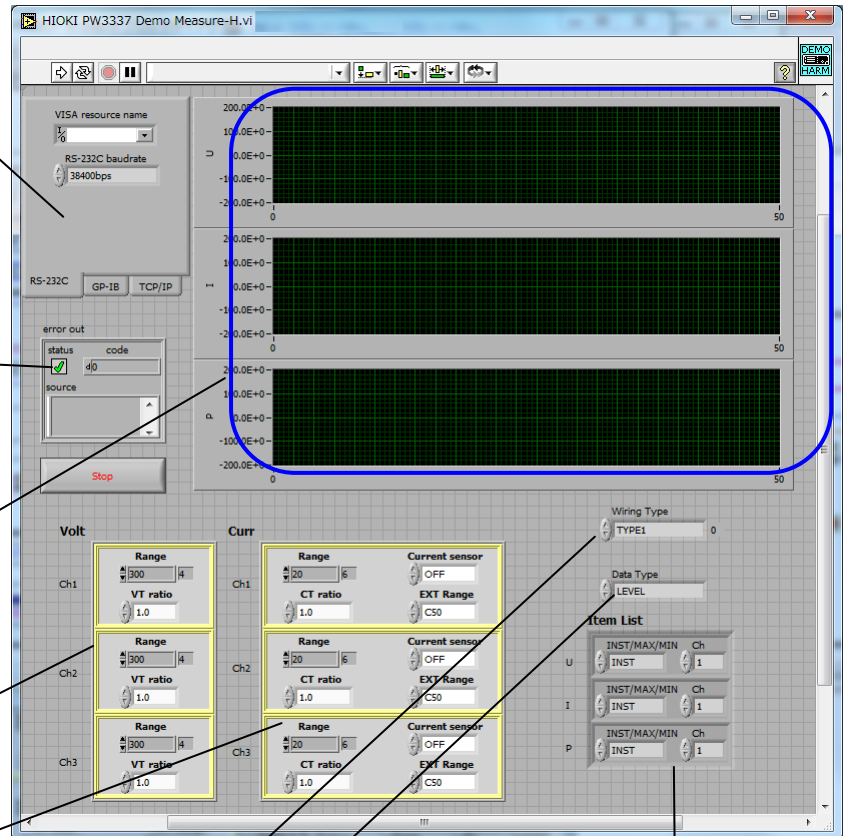
INST/MAX/MIN:

INST...Instantaneous value

MAX...Maximum value

MIN/...Minimum value

Ch: Channel number



3.2 Diagram

This is an example of the demo program when using any of the following drivers.

HIOKI PW3337 Initialize.vi	Opens the communication interface Initial setting of RS-232C/LAN/GP-IB
HIOKI PW3337 Close.vi	Closes the communication interface
HIOKI PW3337 Read_Write.vi	Sends commands and receives data
HIOKI PW3337 Conf Wiring.vi	Sets/queries the wiring mode
HIOKI PW3337 Conf Voltage.vi	Sets/queries the voltage range, voltage auto range, and VT ratio
HIOKI PW3337 Conf Current.vi	Sets/queries the current input type, current range (direct, sensor), current auto range, and CT ratio
HIOKI PW3337 MeasureHRM.vi	Obtains the specified harmonic data

