1. Sample Program Instruction for PW6001 driver

1.1 Startup / Stop

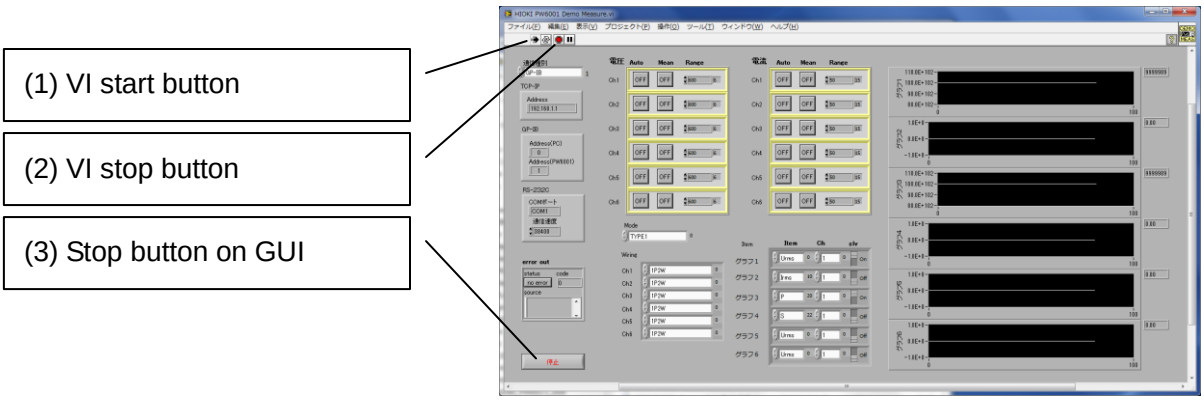
The application shown like below pops up when the following VI starts

HIOKI PW6001 Demo Measure.vi

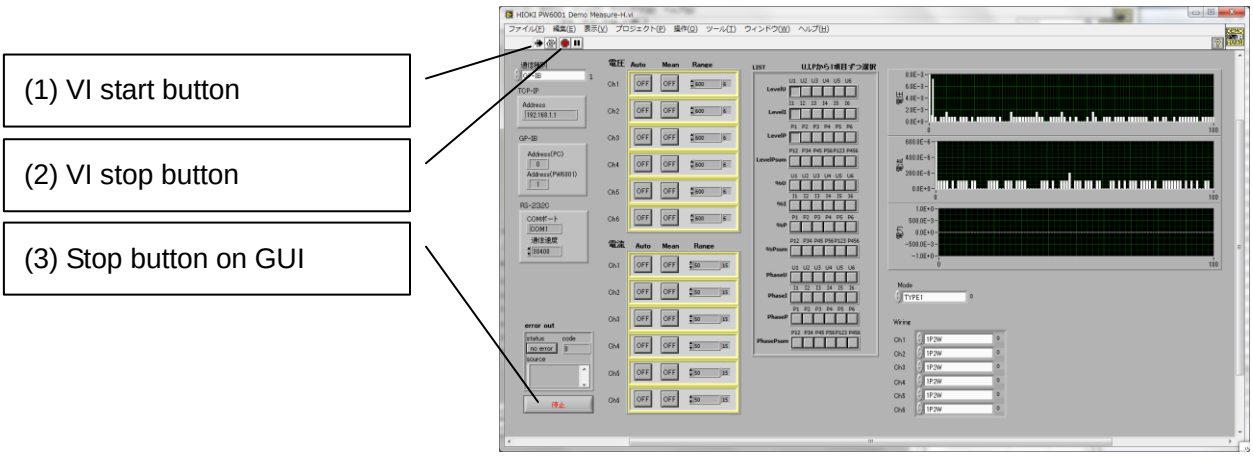
HIOKI PW6001 Demo Measure-H.vi

“(1)VI Start button” runs the application. “(3) Stop button on GUI” just stop the application. “(2)VI stop button” terminates the application in the case that (3) seems not clickable.

HIOKI PW6001 Demo Measure.vi



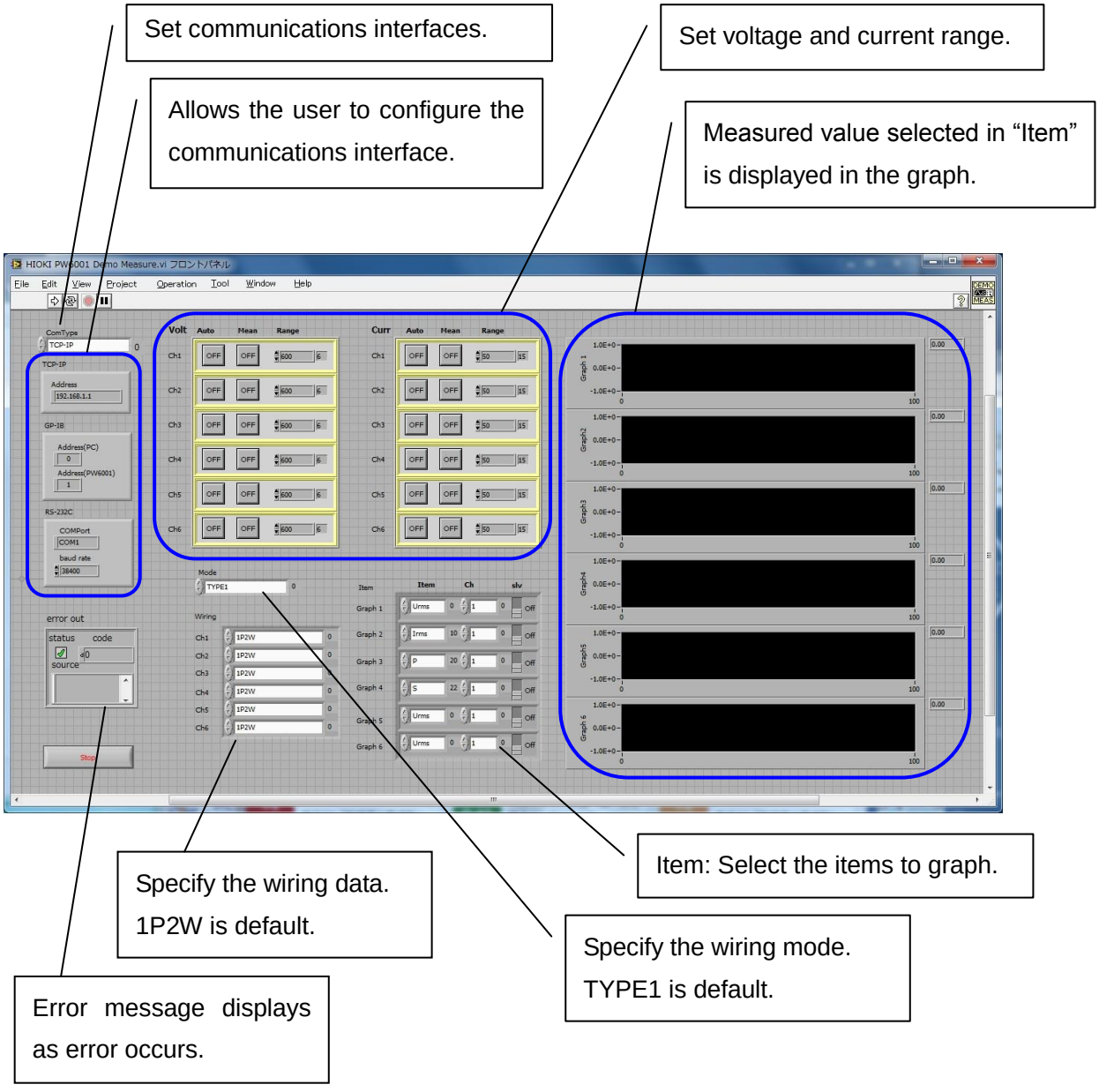
HIOKI PW6001 Demo Measure-H.vi



1.2 HIOKI PW6001 Demo Measure.vi

1.2.1 Main screen

Voltage / Current / Active power / Apparent power etc. are displayed in a graph with 100ms rate.

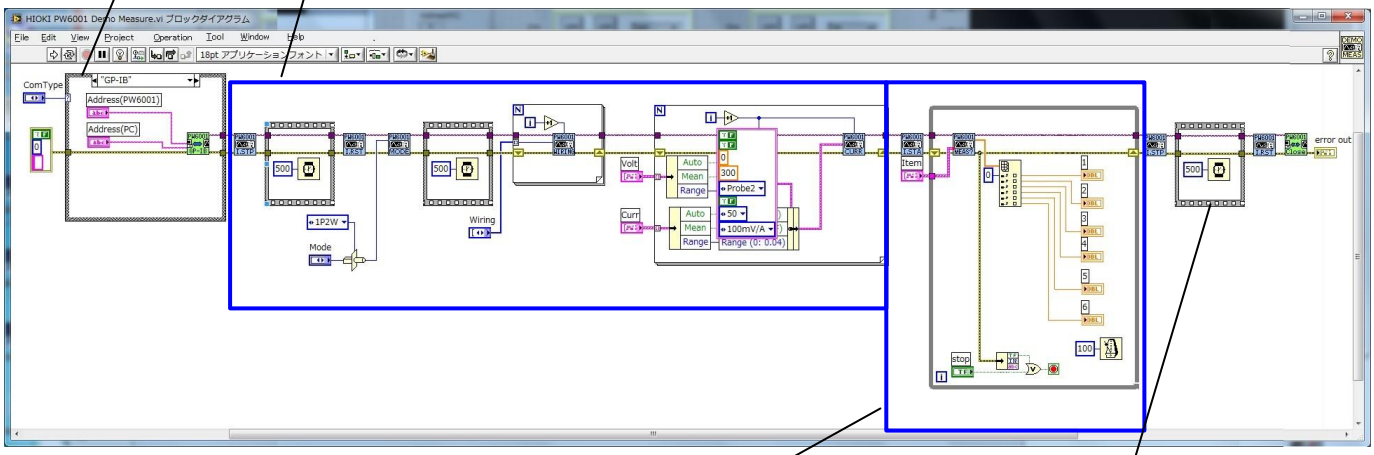


*All settings except the graph must be done prior to starting the program.
Any changes of the setting during the operation may not result in what you expect.

1.2.2 Diagram (vi source code)

Connecting to PW6001 in chosen communication interface

The following steps are required to set up PW6001.
INTEGrate:STOP -> INTEGrate:RESet -> Set wiring mode
-> Set voltage and current range. ->INTEGrate:STARt



Measurement of the data.
Graph updates in 100ms cycle.
* In RS-232C, the updating period of the graph may consist of communication speed than 100ms.

Terminate the connection of PW6001 after INTEGrate:STOP -> INTEGrate:RESet

1.3 HIOKI PW6001 Demo Measure-H.vi

1.3.1 Main screen

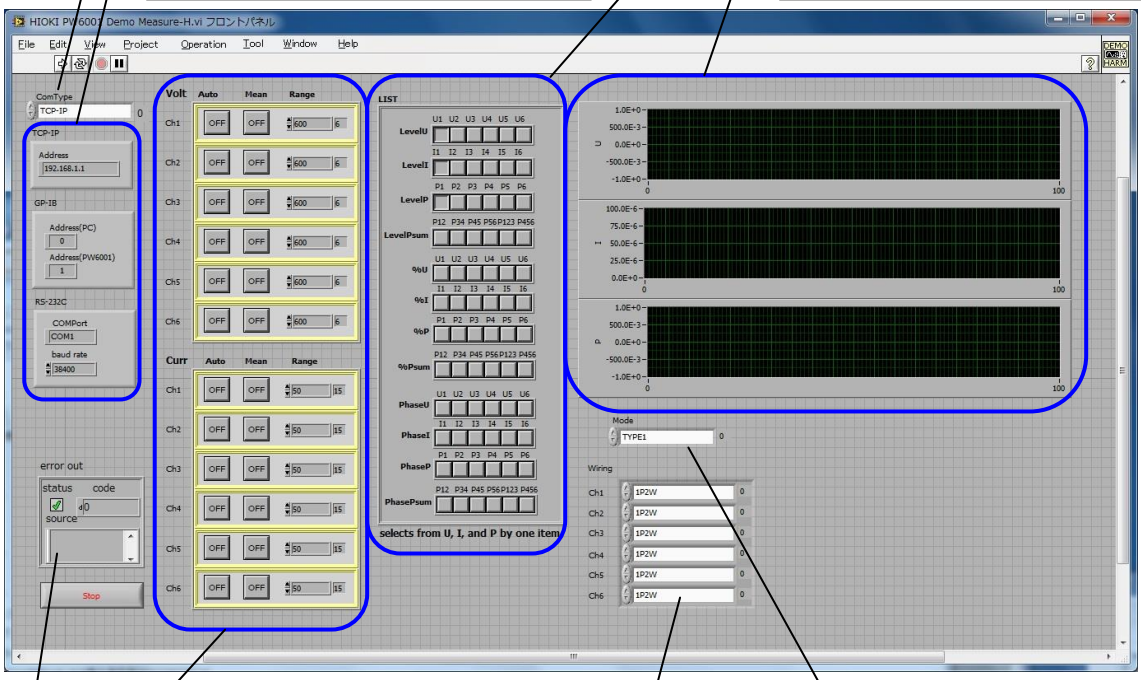
Harmonic data (U / I / P) is displayed in bar graph.

Set communications interfaces.

Item: Select the items to graph.

Allows the user to configure the communications interface.

Measured value selected in “Item” is displayed in the graph.



Set voltage and current range.

Specify the wiring mode.
TYPE1 is default.

Error message displays as error occurs.

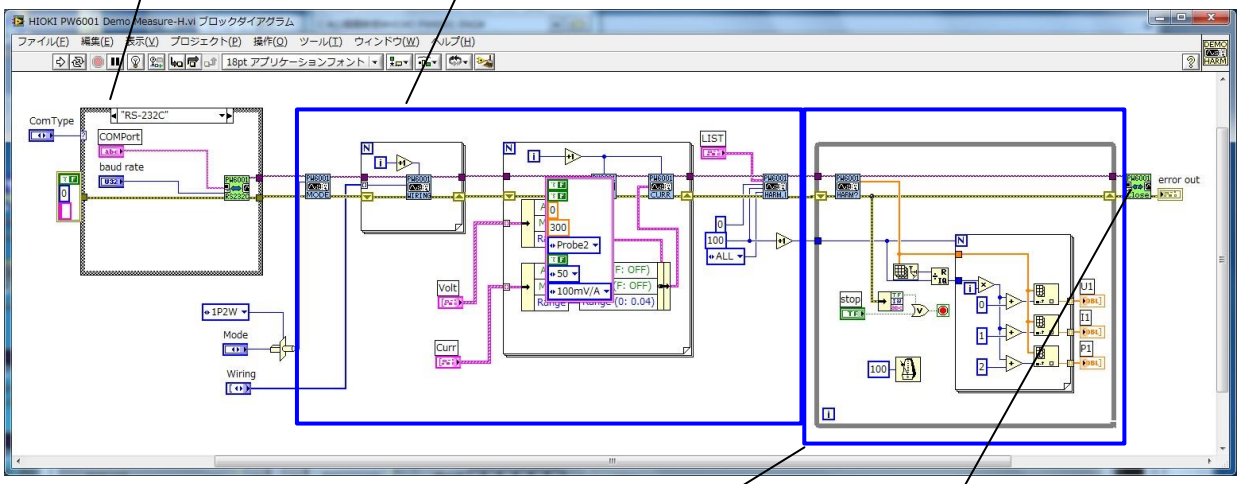
Specify the wiring data.
1P2W is default.

*All settings except the graph must be done prior to starting the program.
Any changes of the setting during the operation may not result in what you expect.
Select only one item from U / I / P fields respectively. Invalid data will show up in the case of multiple items selected.

1.3.2 Diagram (vi source code)

Connecting to PW6001 in chosen communication interface

The following steps are required to set up PW6001.
Set wiring mode -> Set voltage and current range.
-> Set harmonic wave output.



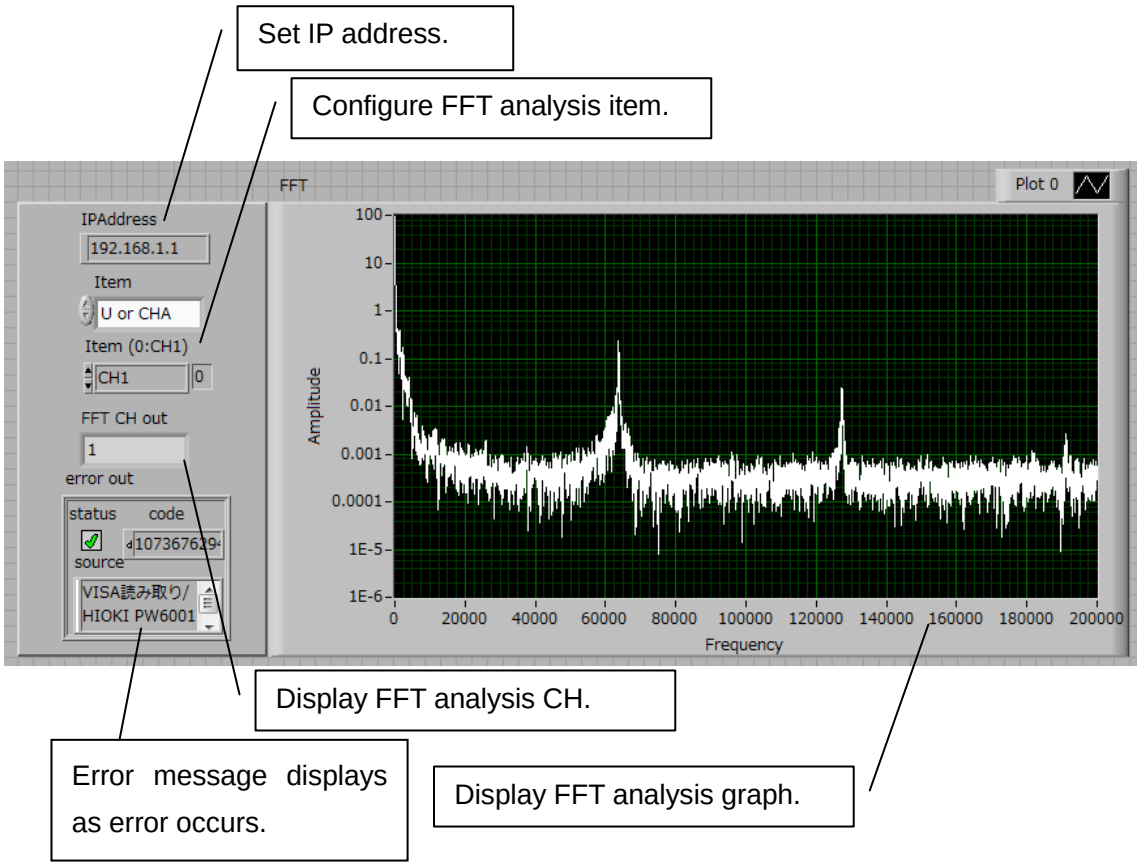
Measurement of the data.
Graph updates in 100ms cycle.
* In RS-232C, the updating period of the graph may consist of communication speed than 100ms.

Terminate the connection of PW6001.

1.4 HIOKI PW6001 Demo Measure_FFT.vi

1.4.1 Main Screen

Display FFT analysis data on the graph. This VI is valid only when connected to LAN.

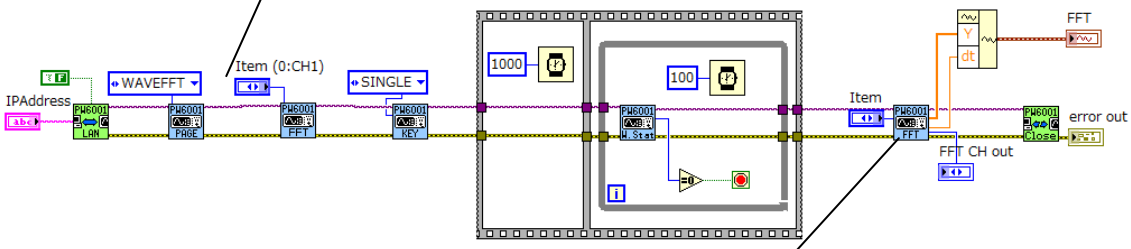


Note:

Specify the FFT analysis setting before starting the program.

1.4.2 Diagram (vi source code)

The following steps are executed.
Move to WAVE-FFT screen. -> Set FFT analysis. -> Memory analysis data. (Query in 100ms cycle until storage is completed.)

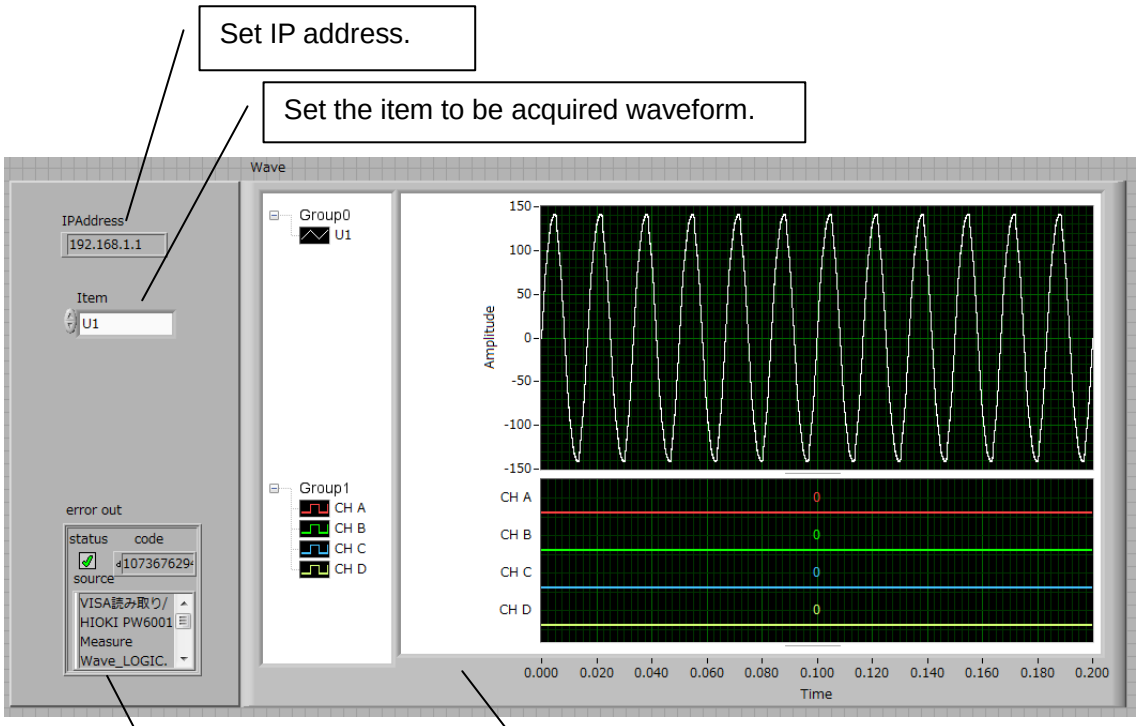


Make the waveform data with the acquired FFT analysis data and display graph.

1.5 HIOKI PW6001 Demo Measure_Wave.vi

1.5.1 Main Screen

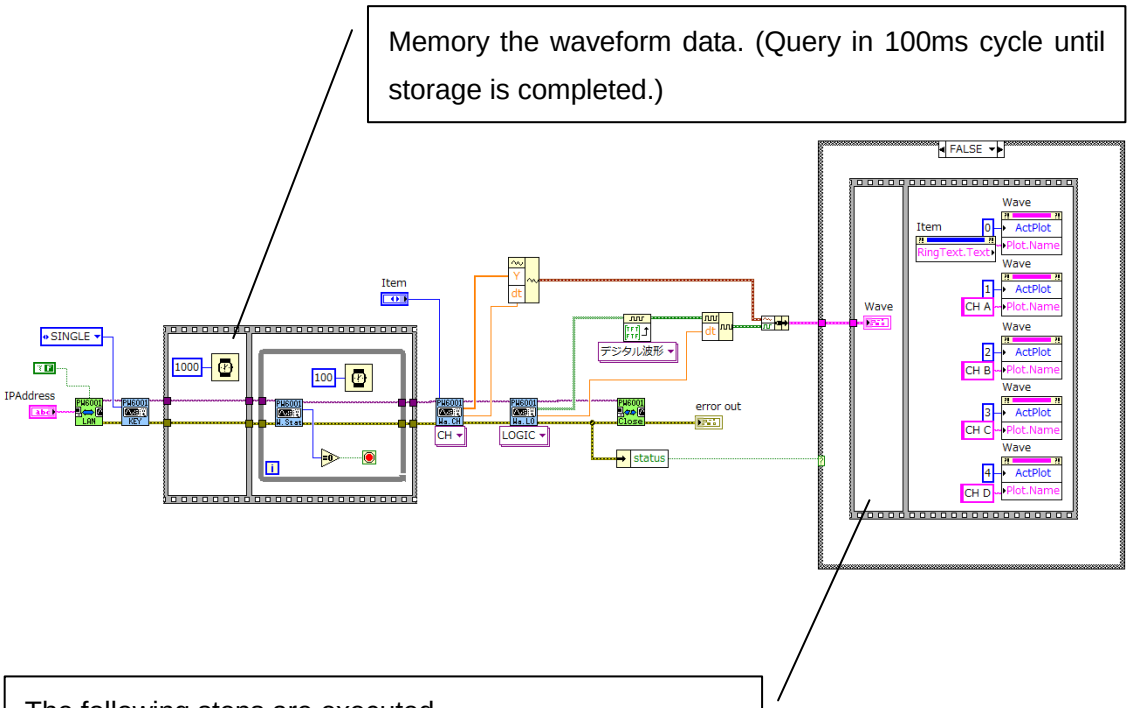
Display the analog waveform data and the logic waveform data on the graph. This VI is valid only when connected to LAN. In order to display the logic waveform data of the motor, the motor analysis option is required.



Note:

Specify the acquired waveform setting before starting the program.

1.5.2 Diagram (vi source code)



Revision History

Edition	Contents	Reviser	Date
1.00	First Edition	HIOKI	2015/10/15
2.00	Adding the “Demo Measure_FFT.vi” and “Demo Measure_Wave.vi”	HIOKI	2017/10/31