

1. Sample Program Instruction

1.1 Startup / Stop

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

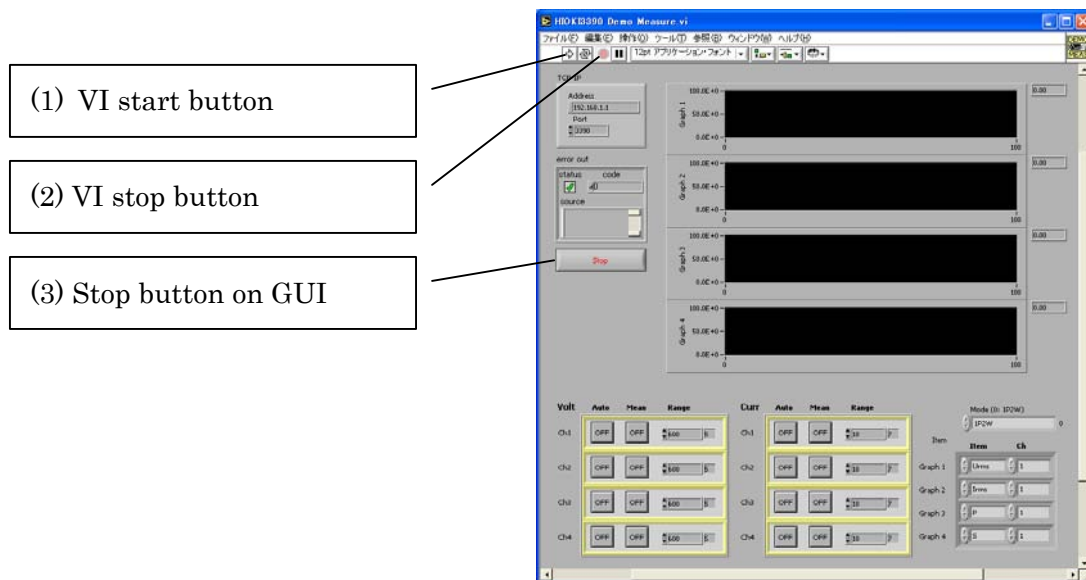
HIOKI3390 Demo Measure.vi

HIOKI3390 Demo Measure-H.vi

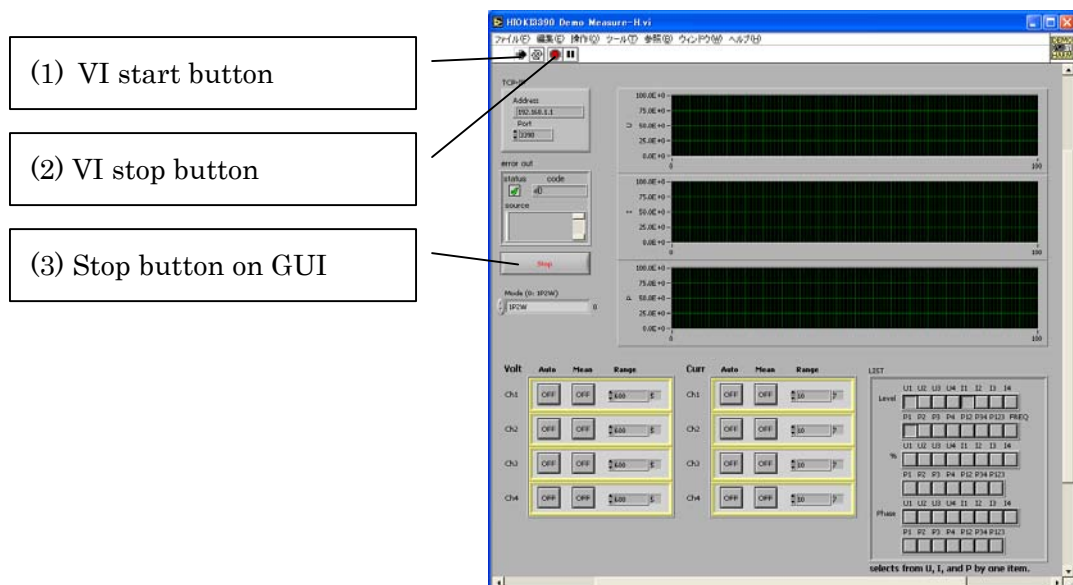
“(1)VI Start button” runs the application. “(3) Stop button on GUI” just stop the application.

“(2)VI stop button” terminates the application in the case that (3) seems not clickable.

HIOKI3390 Demo Measure.vi



HIOKI3390 Demo Measure-H.vi



1.2 HIOKI3390 Demo Measure.vi

1.2.1 Main screen

Voltage/Current/Power/Apparent power graph with 100ms rate.

The screenshot shows the HIOKI3390 Demo Measure.vi software interface. It features a menu bar (File, Edit, Operation, Tools, Reference, Window, Help), a toolbar, and a main workspace. The workspace is divided into several sections: TCP-IP settings, error handling, four graphs (Graph 1 to Graph 4), and measurement settings for Voltage and Current. The graphs are currently blank. The measurement settings include Auto, Mean, and Range buttons for each channel, and a list of items to be measured (Urms, Irms, P, S).

Set IP Address on 3390. The port number is “3390” fixed.

Error message displays as error occurs.

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

Set voltage range.

Set current range.

Specify the wiring mode. 1P2W is default.

Item: Select the items to graph. Voltage(Urms1) and current(Irms1) and effective power(P1), and apparent power(S1) are set as default.

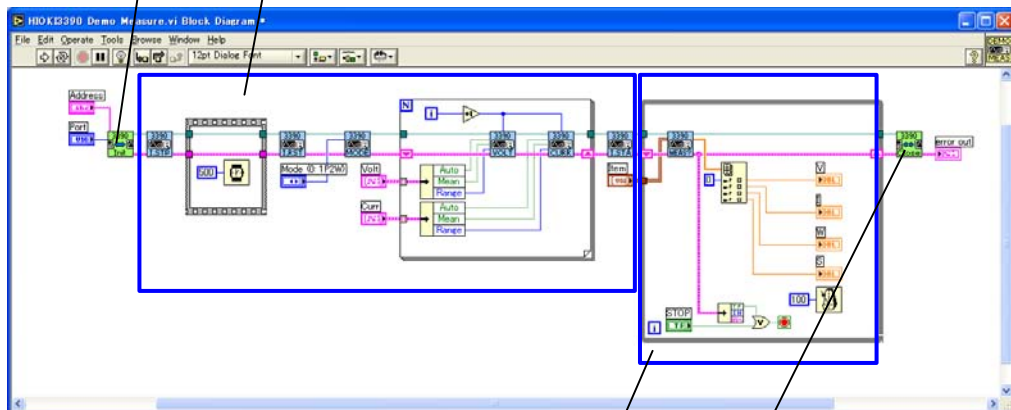
*All settings except the graph must be done prior to starting the program.

Any changes of the setting during the operation may not result in what you expect.

1.2.2 Diagram(vi source code)

Connecting to 3390.

The following steps are required to set up 3390.
INTEGrate:STOP -> INTEGrate:RESet -> Set
wiring mode -> Set voltage and current range.
->INTEGratte:START



Measurement of the data.
Graph updates in 100ms cycle.

Terminate the connection of 3390.

1.3 HIOKI3390 Demo Measure-H.vi

1.3.1 Main screen

Higher harmonic wave data(U/I/P) is displayed in bar graph.

The screenshot shows the HIOKI3390 Demo Measure-H.vi software interface. It includes a menu bar (File, Edit, Operation, Tools, Reference, Window, Help), a toolbar, and a main display area with three bar graphs. The left sidebar contains settings for TCP-IP, error out, status, code, source, Mode (0: 1P2W), and a list of items to graph (U1, U2, U3, U4, I1, I2, I3, I4, P1, P2, P3, P4, P12, P34, P123, FREQ). The bottom right has a 'LIST' section with checkboxes for U1, U2, U3, U4, I1, I2, I3, I4, P1, P2, P3, P4, P12, P34, P123, and FREQ. A note at the bottom right states 'selects from U, I, and P by one item.'

Set IP Address on 3390. The port number is "3390" fixed.

Error message shows as error occurs.

Measured value selected in "LIST" is displayed in the graph.

Specify the wiring mode. 1P2W is default.

Set voltage range.

Set current range.

LIST: Select the items to graph. Voltage(U1) and current(I1) and effective power(P1) are set as 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.

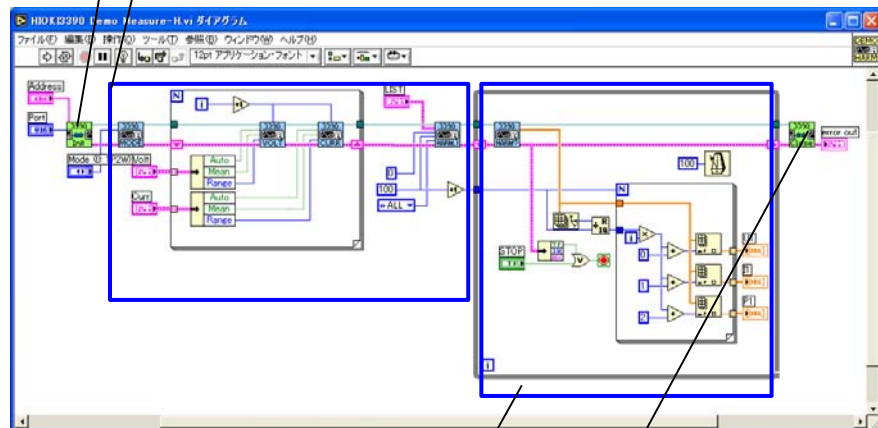
Select only one item from U / I / P fields respectively. Invalid data will show up in the case of multiple items selected.

Do not select "FREQ".

1.3.2 Diagram(vi source code)

Connecting to 3390.

The following steps are required to set up 3390.
Set wiring mode -> Set voltage and current range.
-> Set harmonic wave output.



Measurement of the data.
Graph updates in 100ms cycle.

Terminate the connection of 3390.