

task/channels in

I/O

Rate

1000

Number of samples per channel

40

task out

I/O

data

0

t0

00:00:00 PM

MM/DD/YYYY

dt

0.000000

Y

0

0

0

0

0

Error In

status

code

d 0

source

Error Out

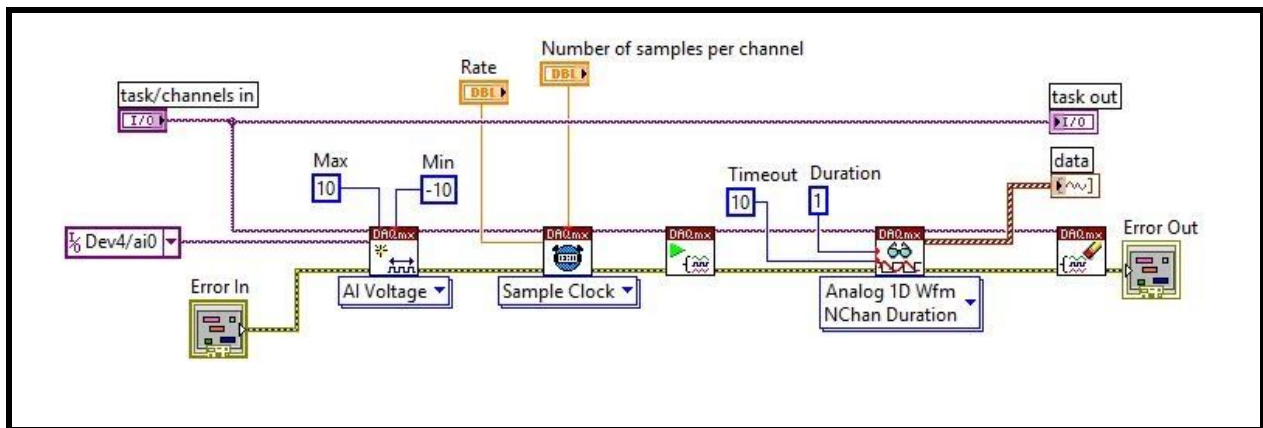
status

code

d 0

source

14 Function Generator Signal uses a physical function generator to create a single waveform that is sent to the USB-6009, which is in turn, outputted to LabVIEW as data.



The VI starts by communicating with the USB-6009 device by receiving a physical channel input, in this case Dev4/ai0. The VI uses the NI DAQ sub VI, DAQmx Create Channel. The new task created by this VI is sent to DAQmx Timing, which determines how the data will be sampled. The task is then sent to start, and the data is then read from the input channels. The data is converted into the correct data format, and sent as output. Finally, the task is cleared, and any errors are sent as output.