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import pyvisa as visa
import MultiPyVu as mpv

# Initialize and start the PPMS server to be able to listen
command from Python
server = mpv.Server()
server.open()
# Start the client connection to the local server port
client = mpv.Client(host='127.0.0.1', port=int(5000))
client.open()
# Read the currnet field value and status
current_field, field_status = client.get_field()
# Setup the field to 10000 Oe with the rate of 220 Oe/s
client.set_field(10000,
                 220,
                 client.field.approach_mode.linear,
                 client.field.driven_mode.driven)
# PyVisa for instrumentation to establish the communication
through Virtual Instrument Software Architecture (VISA)
rm = visa.ResourceManager()
instruments = rm.list_resources()
# GPIB hardware interface with Keithley 2182 nanovoltmeter
keithley_2182nv = rm.open_resource('GPIB1::7::INSTR',
timeout=10000)
# Check the connection status by calling the Instrument ID
Instrument_Identification = keithley_2182nv.query('*IDN?')
# Setup the DC voltage acquisition for Keithley 2182nv
keithley_2182nv.write("SENS:FUNC 'VOLT:DC'")
# Setup the integration time in Number of Power Line Cycles
keithley_2182nv.write(f"VOLT:DC:NPLC 1.8")
# Select Channel 1 as the input port
keithley_2182nv.write("SENS:CHAN 1")
# Acquire the data from Channel 1
keithley_2182nv.query("READ?")
# Terminate the connection interface
keithley_2182nv.close()
# Terminate the client connection for PPMS
client.close_client()
# Terminate the PPMS server connection
server.close()
```