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from grove.i2c import Bus

import time

HM3301_WRITE_ADDR      = 0x80
HM3301_READ_ADDR       = 0x81
HM3301_SELECT_COMM_CMD = 0x88
HM3301_ADDR             = 0x40
HM3301_DATA_BYTES_LENGTH = 29

class GroveLaserPM25HM3301():
    def __init__(self, bus=None, address=HM3301_ADDR):
        self.I2CAddress = address
        self.bus = Bus(bus)

        #Turn off UART communication by sending the command to notify
        #the sensor to only use I2C
        def initialize(self):
            self.bus.write_byte_data(self.I2CAddress, HM3301_WRITE_ADDR, HM3301_SELECT_COMM_CMD)

        def readValues(self):
            return self.bus.read_i2c_block_data(self.I2CAddress, HM3301_READ_ADDR, HM3301_DATA_BYTES_LENGTH)

if __name__ == "__main__":
    test = GroveLaserPM25HM3301()
    test.initialize()
    check = test.readValues()

```