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#!/usr/bin/python
import struct, array, time, io, fcntl
I2C_SLAVE=0x0703
# find with sudo i2cdetect -y 1
HDC1008 ADDR = 0x40
bus=1
fr = io.open("/dev/i2c-"+str(bus), "rb", buffering=0)
fw = io.open("/dev/i2c-"+str(bus), "wb", buffering=0)
# set device address
fcntl.ioctl(fr, I2C_SLAVE, HDC1008_ADDR)
fcntl.ioctl(fw, I2C_SLAVE, HDC1008_ADDR)
time.sleep(0.015) #15ms startup time
s = [0x02,0x02,0x00]
s2 = bytearray( s )
fw.write( s2 ) #sending config register bytes
time.sleep(0.015)
                               # From the data sheet
s = [0x00] # temp
s2 = bytearray( s )
fw.write( s2 )
time.sleep(0.0625)
                              # From the data sheet
data = fr.read(2) #read 2 byte temperature data
buf = array.array('B', data)
print ( "Temp: %f" % ( ((((buf[0] << 8) + (buf[1]))/65536.0)*165.0) - 40.0 ) )
time.sleep(0.015)
                               # From the data sheet
s = [0x01] # hum
s2 = bytearray( s )
fw.write( s2 )
time.sleep(0.0625)
                              # From the data sheet
data = fr.read(2) #read 2 byte temperature data
buf = array.array('B', data)
print ( "Humidity: %f" % ( ((((buf[0]<<8) + (buf[1]))/65536.0)*100.0 ) ) )</pre>
```