```python
#!/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
```

```python
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
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fw.write( s2 )
time.sleep(0.0625)                    # From the data sheet


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print ( "Humidity: %f" % (  ((((buf[0]<<8) + (buf[1]))/65536.0)*100.0 ) ) )
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