

PYTHON CODE

```
import wiotp.sdk.device
import time
import random
import requests

myConfig = {
    "identity": {
        "orgId": "ewzh7u",
        "typeId": "fire-management",
        "deviceId": "222030"
    },
    "auth": {
        "token": "17171717"
    }
}

def myCommandCallback(cmd):
    print("Message received from IBM IoT Platform: %s" % cmd.data['command'])
    m=cmd.data['command']

client = wiotp.sdk.device.DeviceClient(config=myConfig, logHandlers=None)
client.connect()

count=0
while True:
    temp=random.randint(-40,84)
    hum=random.randint(0,100)
    gas=random.randint(0,100)

    if(temp>68 and gas>80):

        myData={'temperature':str(temp)+chr(176)+"C", 'humidity':str(hum)+" %", 'gaslevel':str(gas)+"
%", 'condition':"Turn On Harzard-Protection System" }
```

```
message='Temperature:'+str(temp)+" C"+"\nHumidity:'+str(hum)+" %"+"\nGas-level:'+str(gas)+"
%"+"\nCondition:Turn On Harzard-Protection System"
```

```
url =
"https://www.fast2sms.com/dev/bulkV2?authorization=hdp6viwrXqKO43ZSAEG2tNCY8my7LbBWkx
1anQgszu0HRD5FPIPRgf7ZDrviQT6d9q1NWHXJ2emU5tBI&route=q&message="+message+"&langua
ge=unicode&flash=1&numbers=8925008868"
```

```
response = requests.request("GET", url)
```

```
print(response.text)
```

```
print("Turn On Harzard-Protection System")
```

```
elif(temp>68 and gas<80):
```

```
myData={'temperature':str(temp)+chr(176)+"C", 'humidity':str(hum)+" %", 'gaslevel':str(gas)+"
%', 'condition':"Turn On Fire-Protection System" }
```

```
message='Temperature:'+str(temp)+" C"+"\nHumidity:'+str(hum)+" %"+"\nGas-level:'+str(gas)+"
%"+"\nCondition:Turn On Fire-Protection System"
```

```
url =
"https://www.fast2sms.com/dev/bulkV2?authorization=hdp6viwrXqKO43ZSAEG2tNCY8my7LbBWkx
1anQgszu0HRD5FPIPRgf7ZDrviQT6d9q1NWHXJ2emU5tBI&route=q&message="+message+"&langua
ge=unicode&flash=1&numbers=8925008868"
```

```
response = requests.request("GET", url)
```

```
print(response.text)
```

```
print("Turn On Fire-Protection System")
```

```
elif(temp<68 and gas>80):
```

```
    myData={'temperature':str(temp)+chr(176)+"C", 'humidity':str(hum)+" %", 'gaslevel':str(gas)+"
%", 'condition':"Turn On Ventilation System" }
```

```
    message='Temperature:'+str(temp)+" C"+'\nHumidity:'+str(hum)+" %"+'\nGas-level:'+str(gas)+"
%"+'\nCondition:Turn On Ventilation System'
```

```
    url =
"https://www.fast2sms.com/dev/bulkV2?authorization=hdp6viwrXqKO43ZSAEG2tNCY8my7LbBWkx
1anQgszu0HRD5FPIPRgf7ZDrviQT6d9q1NWHXJ2emU5tBI&route=q&message="+message+"&langua
ge=unicode&flash=1&numbers=8925008868"
```

```
    response = requests.request("GET", url)
```

```
    print(response.text)
```

```
    print("Turn On Ventilation-Protection System")
```

```
else:
```

```
    myData={'temperature':str(temp)+chr(176)+"C", 'humidity':str(hum)+" %", 'gaslevel':str(gas)+"
%", 'condition':"SAFE" }
```

```
    message='Temperature:'+str(temp)+" C"+'\nHumidity:'+str(hum)+" %"+'\nGas-level:'+str(gas)+"
%"+'\nCondition:SAFE'
```

```
    url =
"https://www.fast2sms.com/dev/bulkV2?authorization=hdp6viwrXqKO43ZSAEG2tNCY8my7LbBWkx
1anQgszu0HRD5FPIPRgf7ZDrviQT6d9q1NWHXJ2emU5tBI&route=q&message="+message+"&langua
ge=unicode&flash=1&numbers=8925008868"
```

```
    response = requests.request("GET", url)
```

```
print(response.text)
```

```
print("SAFE")
```

```
client.publishEvent(eventId="status", msgFormat="json", data=myData, qos=0, onPublish=None)
```

```
print("Published data Successfully: %s", myData)
```

```
client.commandCallback = myCommandCallback
```

```
time.sleep(10)
```

```
client.disconnect()
```

← 57575711

Edit ...

Gas-level:42 %
Condition:SAFE

Today 11:34 AM

Temperature:16?C
Humidity:47 %
Gas-level:83 %
Condition:Turn On Ventilation
System

Today 11:34 AM

Temperature:1?C
Humidity:83 %
Gas-level:64 %
Condition:SAFE

Today 11:35 AM

Temperature:80?C
Humidity:42 %
Gas-level:80 %

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Temperature:17?C
Humidity:45 %
Gas-level:43 %
Condition:SAFE

Cancel

Save



Enter message

Send

← 57575711

Edit ...

Today 11:34 AM

Temperature:2?C
Humidity:82 %
Gas-level:42 %
Condition:SAFE

Today 11:34 AM

Temperature:16?C
Humidity:47 %
Gas-level:83 %
Condition:Turn On Ventilation
System

Today 11:35 AM

Temperature:73?C
Humidity:50 %
Gas-level:37 %
Condition:Turn On [Fire](#)-Protection
System

57575711

Temperature:80?C
Humidity:42 %
Gas-level:80 %
Condition:SAFE

Cancel

Save



Enter message

Send

← 57575711

Edit ...

Today 11:34 AM

Temperature:2?C
Humidity:82 %
Gas-level:42 %
Condition:SAFE

Today 11:34 AM

Temperature:16?C
Humidity:47 %
Gas-level:83 %
Condition:Turn On Ventilation
System

Today 11:35 AM

Temperature:80?C
Humidity:42 %
Gas-level:80 %
Condition:SAFE

Today 11:35 AM

57575711

Temperature:1?C
Humidity:83 %
Gas-level:64 %
Condition:SAFE

Cancel

Save



Enter message

Send

← 57575711

Edit ...

Gas-level:42 %
Condition:SAFE

Today 11:34 AM

Temperature:16?C
Humidity:47 %
Gas-level:83 %
Condition:Turn On Ventilation
System

Today 11:34 AM

Temperature:1?C
Humidity:83 %
Gas-level:64 %
Condition:SAFE

Today 11:35 AM

Temperature:80?C
Humidity:42 %
Gas-level:80 %

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Temperature:17?C
Humidity:45 %
Gas-level:43 %
Condition:SAFE

Cancel

Save



Enter message

Send

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Edit ...

Gas-level:42 %
Condition:SAFE

Today 11:34 AM

Temperature:16?C
Humidity:47 %
Gas-level:83 %
Condition:Turn On Ventilation
System

Today 11:34 AM

Temperature:1?C
Humidity:83 %
Gas-level:64 %
Condition:SAFE

Today 11:35 AM

Temperature:80?C
Humidity:42 %
Gas-level:80 %
Condition:SAFE


Today 11:35 AM

Temperature:73?C
Humidity:50 %
Gas-level:37 %
Condition:Turn On [Fire](#)-Protection
System



Enter message

Send

 57575711

Edit ...

Gas-level:83 %

Condition:Turn On Ventilation
System

Today 11:34 AM

Temperature:1?C

Humidity:83 %

Gas-level:64 %

Condition:SAFE

Today 11:35 AM

Temperature:17?C

Humidity:45 %

Gas-level:43 %

Condition:SAFE

Today 11:35 AM

Temperature:80?C

Humidity:42 %

Gas-level:80 %

Condition:SAFE

Today 11:35 AM

Temperature:73?C

Humidity:50 %

Gas-level:37 %

Condition:Turn On [Fire](#)-Protection
System

Enter message

Send