

Sprint 1

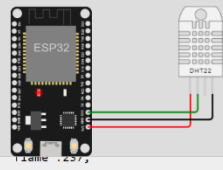
Link : <https://wokwi.com/projects/348507321989595730>

WOKWI SAVE SHARE sketch.ino Docs

sketch.ino diagram.json libraries.txt Library Manager

```
1 #include "DHTesp.h"
2 #include <cstdlib>
3 #include <time.h>
4
5 const int DHT_PIN = 15;
6
7 bool is_exhaust_fan_on = false;
8 bool is_sprinkler_on = false;
9
10 float temperature = 0;
11
12 int gas_ppm = 0;
13 int flame = 0;
14 int flow = 0;
15
16 String flame_status = "";
17 String accident_status = "";
18 String sprinkler_status = "";
19
20 DHTesp dhtSensor;
21 void setup()
22 {
23   Serial.begin(99900);
24
25   /* sensor pin setups */
26   dhtSensor.setup(DHT_PIN, DHTesp::DHT22);
27   //if real gas sensor is used make sure the sensor is heated up for accurate readings
28   /*
29   - Here random values for readings and stdout were used to show the
30   working of the devices as physical or simulated devices are not
```

Simulation 02:29.470 99%



"flow":1,

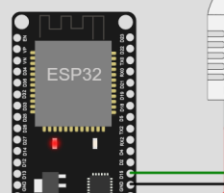
```
  }
  "output":{
    "is_exhaust_fan_on":true,
    "is_sprinkler_on":false,
  }
  "message":/
```

WOKWI SAVE SHARE esp32-dht22.ino Docs

esp32-dht22.ino diagram.json libraries.txt Library Manager

```
1 #include "DHTesp.h"
2 #include <cstdlib>
3 #include <time.h>
4
5 const int DHT_PIN = 15;
6
7 bool is_exhaust_fan_on = false;
8 bool is_sprinkler_on = false;
9
10 float temperature = 0;
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12 int gas_ppm = 0;
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16 String flame_status = "";
17 String accident_status = "";
18 String sprinkler_status = "";
19
20 DHTesp dhtSensor;
21
22
23 void setup() {
24   Serial.begin(99900);
25
26   /* sensor pin setups */
27   dhtSensor.setup(DHT_PIN, DHTesp::DHT22);
28   //if real gas sensor is used make sure the sensor is heated up for accurate readings
29   /*
30   - Here random values for readings and stdout were used to show the
```

Simulation 00:27.430 105%



"messages":{

```
  "fire_status":No Fire,
  "flow_status":now it shouldn't,
  "accident_status":nil,
}
```