

```
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<a href="https://rahmidaa222005.blogspot.com/p/modul-2_5.html">[KEMBALI KE MENU
SEBELUMNYA]</a></div>

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<b>DAFTAR ISI</b>

<br />

<div style="text-align: left;">

<a href="#Prosedur">1. Prosedur</a></div>

<div style="text-align: left;">

<a href="#Hardware">2. Hardware dan Diagram Blok</a></div>

<div style="text-align: left;">

<a href="#Rangkaian">3. Rangkaian Simulasi dan Prinsip Kerja</a></div>

<div style="text-align: left;">

<a href="#Flowchart">4. Flowchart dan Listing Program</a></div>

<div style="text-align: left;">

<a href="#Kondisi">5. Analisa</a></div>

<div style="text-align: left;">

<a href="#Simulasi">6. Video Demo</a></div>

<div style="text-align: left;">

<a href="#Download">7. Download File</a><br />

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```

</div>

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<div style="font-size: medium;">
</div><div style="text-align: center;">Laporan Akhir 2 Modul 2</div><div style="text-align: center;">(Percobaan 5)</div><div style="text-align: center;">
</div>1. Prosedur

[Kembali]<div><div style="background-color: white; border: 0px; box-sizing: border-box; margin: 0px; padding: 0px;"><div style="border: 0px; box-sizing: border-box; margin: 0px; padding: 0px;"><ul style="text-align: left;">Rangkai semua komponen Buat program di website wokwiJalankan program dan cobakan sesuai kondisi</div><div style="border: 0px; box-sizing: border-box; margin: 0px; padding: 0px;">
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2. Hardware dan Diagram Blok

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</div><div class="separator" style="background-color: white; clear: both; font-family: times, "times new roman"; serif; font-size: 13.2px; text-align: center;">
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style="font-family: Arial, Tahoma, Helvetica, FreeSans, sans-serif; text-align: start;"><span
style="font-family: times, "times new roman"; serif;">Diagram Blok

</div><div style="font-family: Arial, Tahoma, Helvetica, FreeSans, sans-serif; font-size: 13.2px; text-align: start;">
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3. Rangkaian Simulasi dan Prinsip Kerja

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width="320" /></div>
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</div><div>Prinsip Kerja : </div><div style="text-align: justify;"><p class="MsoNormal" style="background-color: white; color: #333333; font-family: times; font-size: 14.85px;">Prinsip kerja rangkaian ini dimulai dengan inisialisasi seluruh perangkat keras, yaitu sensor suhu dan kelembapan DHT22, potensiometer, motor servo, dan buzzer, yang semuanya dikendalikan oleh mikrokontroler Raspberry Pi Pico. Dalam loop utama, sistem pertama-tama membaca nilai dari potensiometer yang kemudian digunakan untuk mengatur posisi motor servo sesuai nilai tersebut. Setelah itu, mikrokontroler membaca data suhu dan kelembapan dari sensor DHT22. Jika sensor gagal mengirimkan data, maka sistem akan mencetak pesan kesalahan (print error). Namun, jika data berhasil dibaca, maka nilai suhu dan kelembapan akan ditampilkan. Selanjutnya, sistem melakukan evaluasi terhadap nilai suhu dan kelembapan tersebut. Jika suhu lebih dari 35°C dan kelembapan lebih dari 50%, maka sistem akan menampilkan peringatan dan mengaktifkan buzzer dengan melodi gabungan. Jika hanya suhu yang melebihi 35°C, maka sistem akan memberikan peringatan dan membunyikan buzzer dengan melodi suhu tinggi. Jika hanya kelembapan yang melebihi 50%, maka buzzer berbunyi dengan melodi kelembapan tinggi. Jika kedua parameter berada dalam batas normal, maka buzzer tidak akan menyala. Seluruh proses ini diulang setiap 0.5 detik dalam loop utama sistem.</p></div><div>
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4. Flowchart dan Listing Program

[Kembali]</div><div>
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mso-style-parent:"";
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mso-para-margin-right:0cm;
mso-para-margin-bottom:8.0pt;
mso-para-margin-left:0cm;
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font-size:12.0pt;
font-family:"Calibri",sans-serif;
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mso-ascii-theme-font:minor-latin;
mso-hansi-font-family:Calibri;
mso-hansi-theme-font:minor-latin;
```

```

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mso-bidi-theme-font:minor-bidi;
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mso-fareast-language:ZH-CN;}
</style>
<![endif]-->

<p class="MsoNormal"><span lang="id" style="mso-ansi-language: #0021;">from machine
import Pin, ADC, PWM</span></p>

<p class="MsoNormal"><span lang="id" style="mso-ansi-language: #0021;">import
time</span></p>

<p class="MsoNormal"><span lang="id" style="mso-ansi-language: #0021;">import
dht</span></p>

<p class="MsoNormal"><span lang="id" style="mso-ansi-language:
#0021;">&nbsp;</span></p>

<p class="MsoNormal"><span lang="id" style="mso-ansi-language: #0021;"># Inisialisasi
potensiometer pada GPIO 26 (ADC0)</span></p>

<p class="MsoNormal"><span lang="id" style="mso-ansi-language: #0021;">pot =
ADC(26)</span></p>

```

<p class="MsoNormal"> </p>

<p class="MsoNormal"># Inisialisasi motor servo pada GPIO 15 (PWM)</p>

<p class="MsoNormal">servo = PWM(Pin(15))</p>

<p class="MsoNormal">servo.freq(50) # Frekuensi PWM untuk servo</p>

<p class="MsoNormal"> </p>

<p class="MsoNormal"># Inisialisasi buzzer sebagai PWM pada GPIO 14</p>

<p class="MsoNormal">buzzer = PWM(Pin(14))</p>

<p class="MsoNormal">buzzer.duty_u16(0) # Tidak ada suara saat awal</p>

<p class="MsoNormal"> </p>

<p class="MsoNormal"># Inisialisasi sensor DHT22 pada GPIO 16</p>

<p class="MsoNormal">dht_sensor = dht.DHT22(Pin(16))</p>

<p class="MsoNormal"> </p>

<p class="MsoNormal"># Fungsi mapping nilai</p>

<p class="MsoNormal">def map_value(value, in_min, in_max, out_min, out_max):</p>

<p class="MsoNormal"> return int((value - in_min) * (out_max - out_min) / (in_max - in_min) + out_min)</p>

<p class="MsoNormal"> </p>

<p class="MsoNormal"># Fungsi untuk membunyikan buzzer dengan nada tertentu</p>

<p class="MsoNormal">def
play_buzzer_note(frequency, duration_ms):</p>

<p class="MsoNormal"><span
style="mso-spacerun: yes;"> buzzer.freq(frequency)</p>

<p class="MsoNormal"><span
style="mso-spacerun: yes;"> buzzer.duty_u16(32768)<span
style="mso-spacerun: yes;"> # Volume setengah</p>

<p class="MsoNormal"><span
style="mso-spacerun: yes;">
time.sleep_ms(duration_ms)</p>

<p class="MsoNormal"><span
style="mso-spacerun: yes;"> buzzer.duty_u16(0)</p>

<p class="MsoNormal"><span
style="mso-spacerun: yes;"> time.sleep_ms(50)<span
style="mso-spacerun: yes;"> # Jeda antar nada</p>

<p class="MsoNormal"><span lang="id" style="mso-ansi-language:
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<p class="MsoNormal"># Fungsi
melodi untuk suhu tinggi</p>

<p class="MsoNormal">def
play_high_temp_melody():</p>

<p class="MsoNormal"> play_buzzer_note(880, 200) # A5</p>

<p class="MsoNormal"> play_buzzer_note(988, 200) # B5</p>

<p class="MsoNormal"> play_buzzer_note(1047, 200) # C6</p>

<p class="MsoNormal"> </p>

<p class="MsoNormal"># Fungsi melodi untuk kelembapan tinggi</p>

<p class="MsoNormal">def play_high_humidity_melody():</p>

<p class="MsoNormal"> play_buzzer_note(659, 200) # E5</p>

<p class="MsoNormal"> play_buzzer_note(698, 200) # F5</p>

<p class="MsoNormal"> play_buzzer_note(784, 200) # G5</p>

<p class="MsoNormal"> </p>

<p class="MsoNormal"># Fungsi melodi kombinasi suhu dan kelembapan tinggi</p>

<p class="MsoNormal">def play_combined_alert_melody():</p>

<p class="MsoNormal"> play_buzzer_note(1047, 200) # C6</p>

<p class="MsoNormal"> play_buzzer_note(1175, 200) # D6</p>

<p class="MsoNormal"> play_buzzer_note(1319, 200) # E6</p>

<p class="MsoNormal"> </p>

<p class="MsoNormal">while
True:</p>

<p class="MsoNormal"><span
style="mso-spacerun: yes;"> # Baca potensiometer</p>

<p class="MsoNormal"><span
style="mso-spacerun: yes;"> pot_value =
pot.read_u16()</p>

<p class="MsoNormal"><span
style="mso-spacerun: yes;"> servo_angle = map_value(pot_value,
0,
65535, 0, 180)</p>

<p class="MsoNormal"><span
style="mso-spacerun: yes;"> servo_duty =
map_value(servo_angle, 0, 180,
1638, 8192)</p>

<p class="MsoNormal"><span
style="mso-spacerun: yes;">
servo.duty_u16(servo_duty)</p>

<p class="MsoNormal"><span lang="id" style="mso-ansi-language:
#0021;"> </p>

<p class="MsoNormal"><span
style="mso-spacerun: yes;"> # Baca suhu dan kelembapan dari
DHT22</p>

<p class="MsoNormal"> try:</p>

<p class="MsoNormal"> dht_sensor.measure()</p>

<p class="MsoNormal"> temperature = dht_sensor.temperature()</p>

<p class="MsoNormal"> humidity = dht_sensor.humidity()</p>

<p class="MsoNormal"> print(f"Suhu: {temperature}°C |

Kelembapan: {humidity:.1f}%")</p>

<p class="MsoNormal"> </p>

<p class="MsoNormal"> # Cek kondisi dan mainkan melodi sesuai kondisi</p>

<p class="MsoNormal"> </p>

<p class="MsoNormal"> except OSError:</p>

<p class="MsoNormal"> print(" ⚠

Gagal membaca sensor DHT22.")</p>

<p class="MsoNormal"> </p>

<p class="MsoNormal"> time.sleep(0.5)</p>
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[Kembali]

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serif;">[Download]</div><div><span style="font-family: "times" ,
"times new roman" , serif;">Download Video
Demo <span style="font-family: "times" , "times
new roman" , serif;">[<a
href="https://drive.google.com/uc?export=download&id=1UKQwIYA9ptg5S5s0jRZNy9ovh
KLIC3Dy">Download]</div><div><span style="font-family: "times" ,
"times new roman" , serif;">Download Listing
Program <a
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</div><div><span style="font-family: "times" , "times new roman" ,
serif;">Datasheet Raspberry Pi
Pico <span style="font-family:
"times" , "times new roman" , serif;">[Download]</

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