

**CODE:**

**int const PINO\_SGAS = A1;**

**int LED\_VERDE = 7;**

**int LED\_AMARELO = 6;**

**int LED\_VERMELHO1 = 5;**

**int LED\_VERMELHO2 = 4;**

**void setup(){**

**pinMode(LED\_VERDE, OUTPUT);**

**pinMode(LED\_AMARELO, OUTPUT);**

**pinMode(LED\_VERMELHO1, OUTPUT);**

**pinMode(LED\_VERMELHO2, OUTPUT);**

**Serial.begin(9600);**

**}**

**void loop(){**

**int valor = analogRead(PINO\_SGAS);**

**valor = map(valor, 300, 750, 0, 100);**

**digitalWrite(LED\_VERDE, HIGH);**

**digitalWrite(LED\_AMARELO, valor >= 30 ? HIGH : LOW);**

**digitalWrite(LED\_VERMELHO1, valor >= 50 ? HIGH : LOW);**

**digitalWrite(LED\_VERMELHO2, valor >= 80 ? HIGH : LOW);**

**delay(250);**

**}**