

# Internet das coisas

## 11. Sistema de Detecção de Incêndios com Alerta em Tempo Real



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# Wokwi

## Controlador:

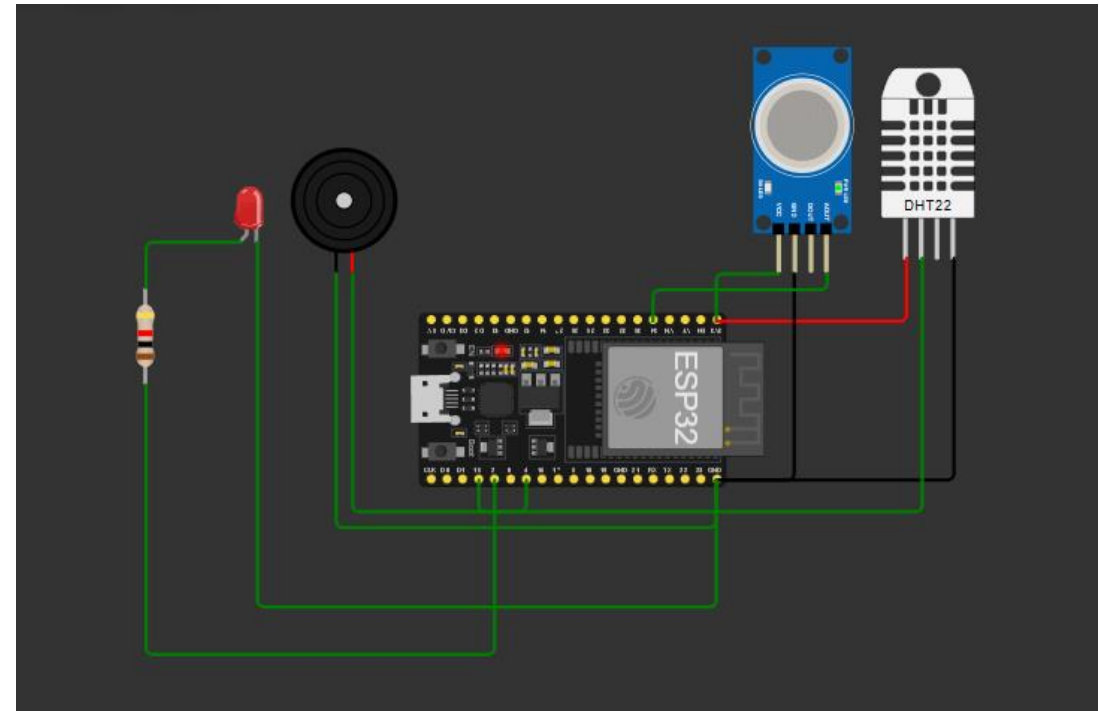
- ESP32 -> Responsável pelo processamento e envio dos dados;

## Sensores:

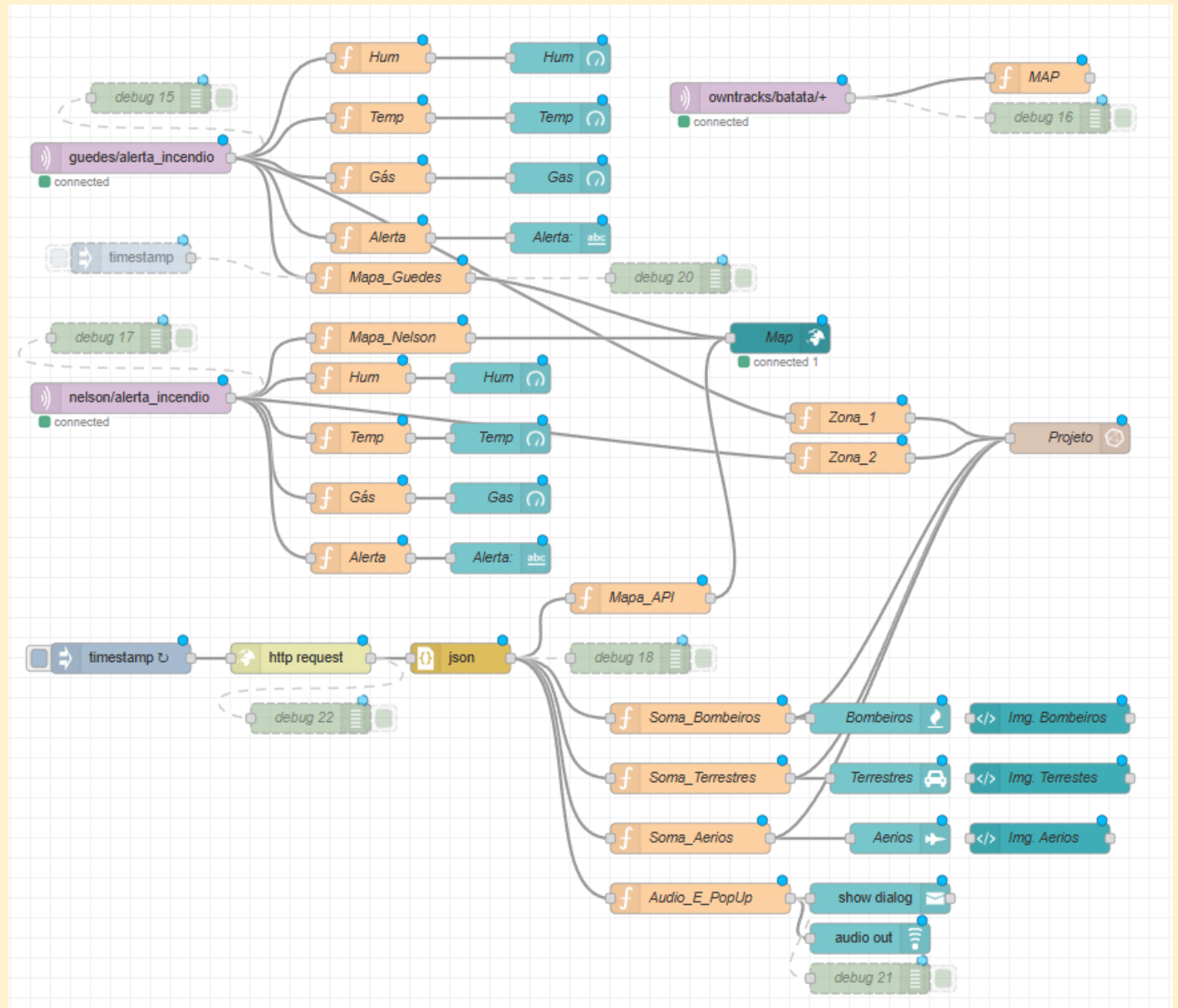
- DHT22 -> Temperatura e Humidade;
- MQ2 -> Gás

## Atuadores:

- LED -> Indicador Visual de incêndio
- Buzzer -> Efeito sonoro de incêndio



# Node – Red



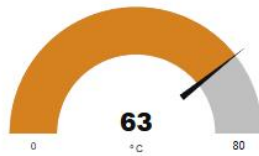
# Dashboard Node-Red

## Projeto

### Zona1

 **Alerta de Incêndio!**

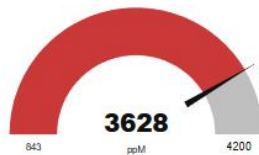
#### Temperatura



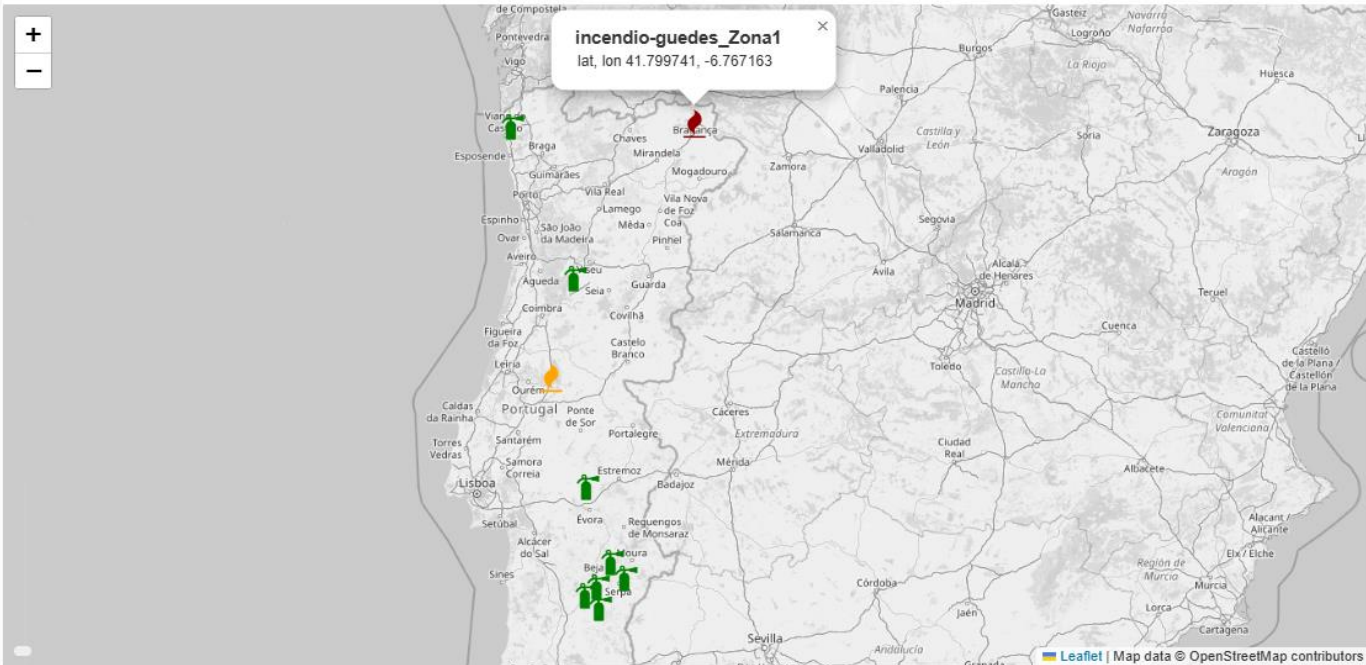
#### Humidade



#### Gas



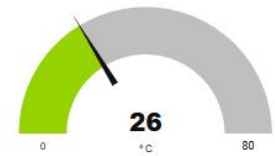
### Map



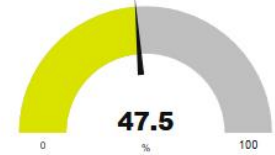
### Zona2

 **Tudo normal**

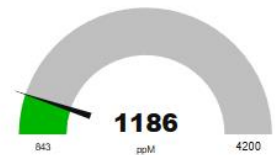
#### Temperatura



#### Humidade



#### Gas



### Bombeiros

103



### Terrestres

30

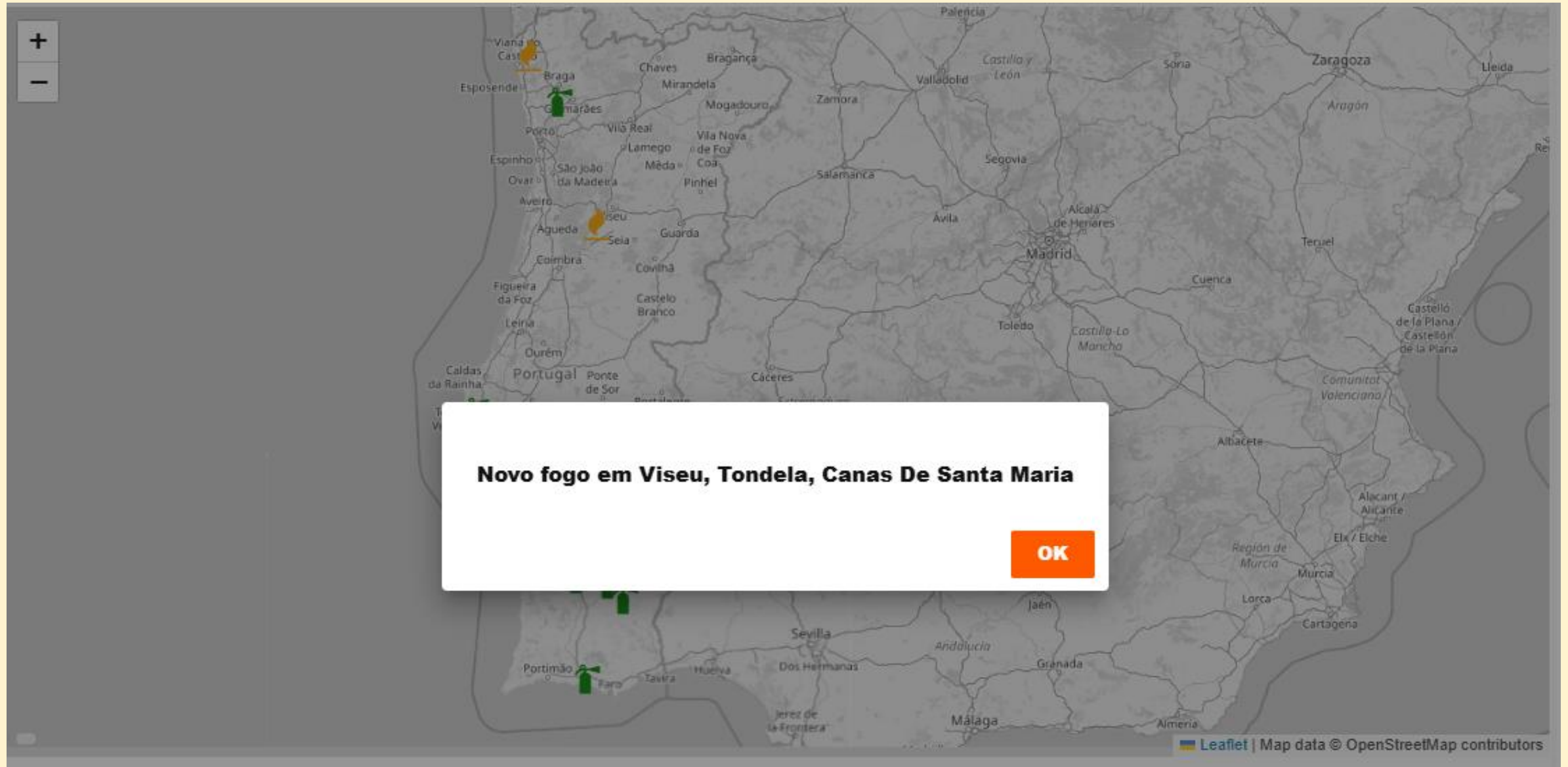


### Aerio

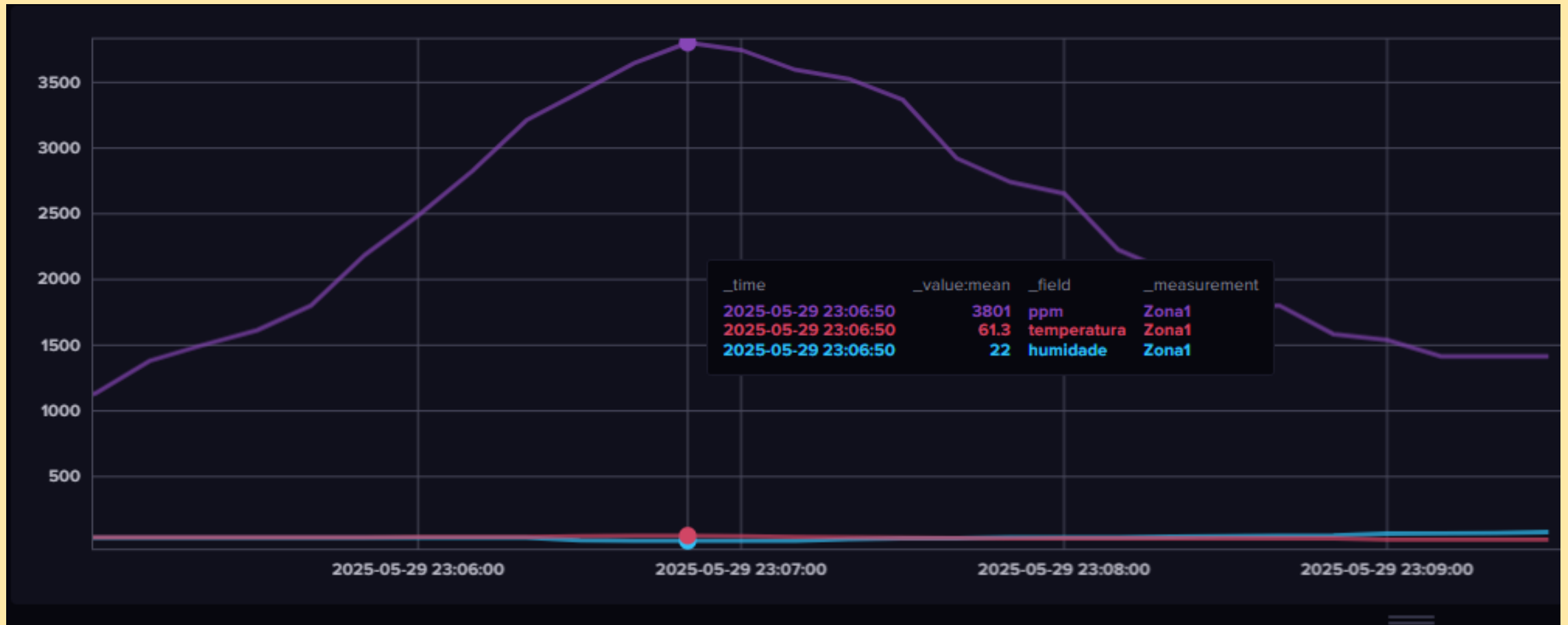
1



# Dashboard Node-Red 2



# InfluxDB

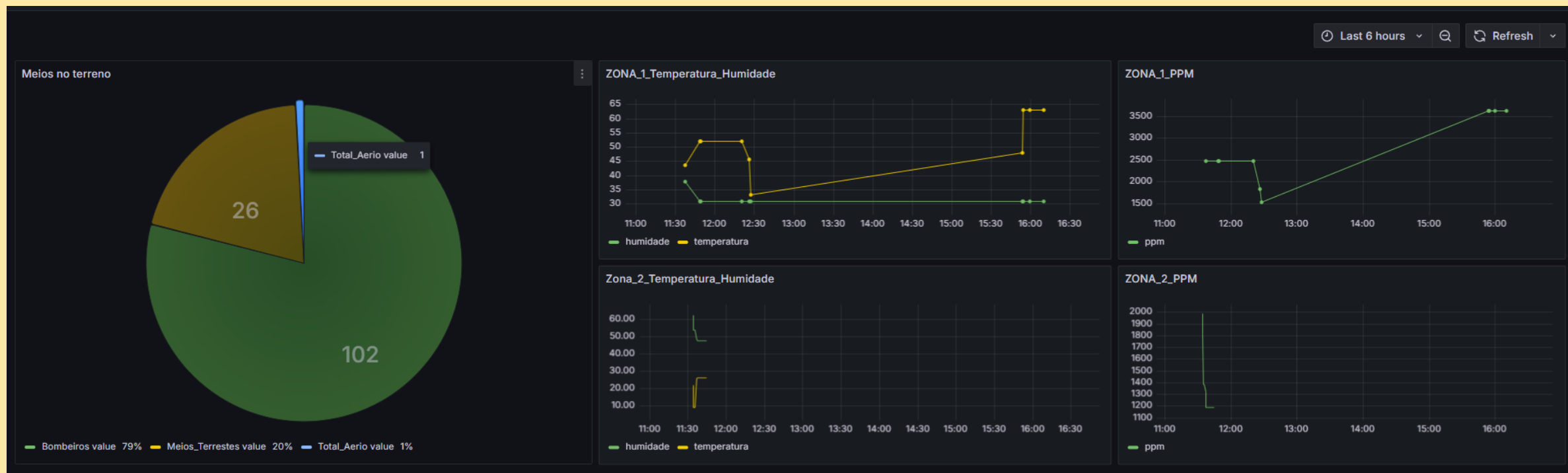


# InfluxDB





# Grafana





# Fluxograma

