

PRODUCT DATASHEET



Ozone Sensor MQ131 Breakout

333110

The MQ131 ozone sensor detects O₃ levels from 10 to 1000 ppm, ideal for air quality monitoring and ozone leakage detection.

Full product documentation, files and tutorials: solde.red/333110

CORE ATTRIBUTES

SKU 333110

WEIGHT 10 g

BARCODE 732388667307

DESCRIPTION

The MQ131-H is the **high concentration version** of the MQ131 ozone sensor, designed for detecting ozone (O₃) levels in the **10 - 1000 ppm** range. This sensor offers **good sensitivity to O₃** and operates on the **semiconductor detection principle**, making it well-suited for industrial and environmental applications. The MQ131 sensor's sensitivity and selectivity enable it to effectively detect and measure ozone levels, making it a valuable tool for applications such as **air quality monitoring**, **ozone generators**, and **ozone leakage detection systems**. By integrating the MQ131 sensor with appropriate electronic circuits and microcontrollers like **Dasduino**, you can create systems that provide **real-time ozone concentration monitoring** and trigger **alerts when hazardous levels are detected**. **The breakout board works with both digital (DO) and analog signals (AO)**. The digital output is obtained by setting a **threshold value with a potentiometer**, while the **analog output** will vary depending on the **intensity of the detected gas**.

Product usage tips:

- When gas is detected, the **LED will light up**. It will remain off if no gas is detected.
- The board includes **two mounting holes** for easy installation on surfaces.
- **Four male headers** are included but **need to be soldered** by the user.

TECHNICAL DETAILS

- **Sensor:** MQ131
- **Detects:** ozone
- **Detection range:** 10 ... 1000ppb ozone
- **Power supply:** 5 V
- **Output:** 1V at 200ppb O₃
- **Dimensions:** 22 × 38 mm / 0.9 × 1.5 inch

SPECIFICATIONS

INTERFACE	Analog, Digital Gpio
QWIIC COMPATIBLE	No
BREADBOARD COMPATIBLE	Yes
MEASUREMENT TYPES	Gas
IC PART NUMBER	MQ131
SUPPLY VOLTAGE MIN V	5
SUPPLY VOLTAGE MAX V	5
LOGIC LEVEL	5V Only

LINKS

Arduino Library	https://github.com/SolderedElectronics/Soldered-MQ-Gas-Sensor-Arduino-Library
Open Source Hardware Files	https://github.com/SolderedElectronics/Ozone-sensor-MQ131-breakout-hardware-design
Full Documentation	https://docs.soldered.com/mq/overview/
Arduino: Get Started	https://docs.soldered.com/mq/arduino/getting-started/
Hardware Details	https://docs.soldered.com/mq/hardware/
Arduino Library Documentation	https://docs.soldered.com/mq/arduino/initialization-native/
Pinout	https://cms.soldered.com/products/333110/media/333110_pinout-png_b45fe5.svg

GALLERY

