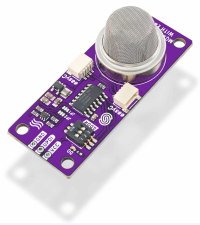
PRODUCT DATASHEET



Ozone Sensor MQ131 Breakout with Qwiic

333124

The MQ131 ozone sensor detects O_3 levels from 10-1000 ppm, ideal for air quality monitoring and ozone leakage detection.

Full product documentation, files and tutorials: **solde.red/333124**

CORE ATTRIBUTES

SKU **333124**

WEIGHT **11 g**

BARCODE **732388666003**

DESCRIPTION

The MQ131-H is the **high concentration version** of the MQ131 ozone sensor, designed for detecting ozone (O_3) levels in the **10 - 1000 ppm** range. This sensor offers **good sensitivity to O_3** and operates on the **semiconductor detection principle**, making it ideal for **industrial** and **environmental** applications.

The sensitivity and selectivity of the MQ131 sensor 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 enable **real-time monitoring** of ozone concentration and **trigger alerts** when dangerous levels are detected.

The breakout board provides **digital and analog readings via the Qwiic system**, allowing smooth integration with platforms that support this interface. Sensor data is easily accessible through Qwiic.

Product usage tips:

- When gas is detected, the **LED will light up**. It will remain off if no gas is detected.
- The board includes **four mounting holes** for easy installation.
- Comes with **three male headers** for UPDI programming the onboard ATTINY, which is not required for normal usage

TECHNICAL DETAILS

- **Detects:** ozone (O3)
- **Voltage:** 3V3
- **Output:** digital
- ATTiny404 microcontroller onboard
- qwiic connectors

- **Dimensions:** 54 × 22 mm / 2.1 × 0.9 inch

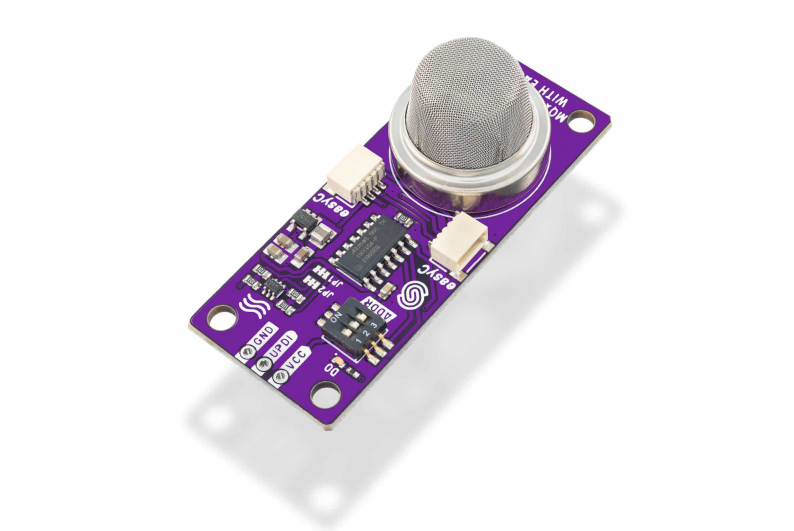
SPECIFICATIONS

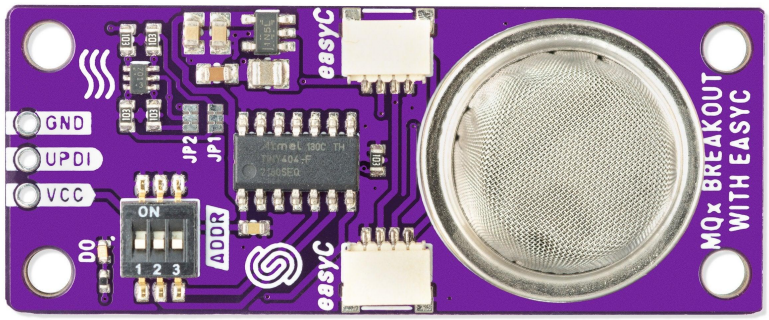
INTERFACE	I2C
QWIIC COMPATIBLE	Yes
I2C ADDRESS DEFAULT	0x30
I2C ADDRESS CHANGEABLE	Yes
BREADBOARD COMPATIBLE	Yes
MEASUREMENT TYPES	Gas
IC PART NUMBER	MQ131
MCU PART NUMBER	ATTINY404
SUPPLY VOLTAGE MIN V	3.3
SUPPLY VOLTAGE MAX V	3.3
LOGIC LEVEL	3V3 Only

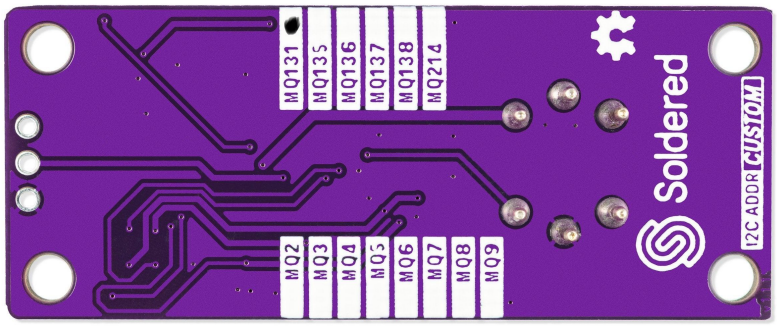
LINKS

Arduino Library	https://github.com/SolderedElectronics/Soldered-MQ-Gas-Sensor-Arduino-Library/tree/main
Open Source Hardware Files	https://github.com/SolderedElectronics/Ozone-sensor-MQ131-breakout-with-easyC-hardware-design
Full Documentation	https://docs.soldered.com/mq/overview/
Arduino: Get Started	https://docs.soldered.com/mq/arduino/geting-started/
Hardware Details	https://docs.soldered.com/mq/hardware/
Arduino Library Documentation	https://docs.soldered.com/mq/arduino/initialization-qwiic/
mim_package	https://checkmim.com/packages/solderedelectronics+Soldered-MQSensors-MicroPython-Library
MicroPython Module	https://github.com/SolderedElectronics/Soldered-MQSensors-MicroPython-Library

GALLERY


GND
UPDI
VCC
DO


GND
UPDI
VCC
DO
JP2
JP1
ADDR
ON
1 2 3
easyC
MQx BREAKOUT
WITH EASYC


MQ131
MQ135
MQ136
MQ137
MQ138
MQ214
MQ2
MQ3
MQ4
MQ5
MQ6
MQ7
MQ8
MQ9
Soldered
I2C ADDR CUSTOM