

PRODUCT DATASHEET



CO Sensor MQ7 Breakout

333107

The CO Sensor MQ7 Breakout detects carbon monoxide levels with digital and analog outputs, ideal for safety systems and environmental monitoring.

Full product documentation, files and tutorials: solde.red/333107

CORE ATTRIBUTES

SKU 333107

WEIGHT 8 g

BARCODE 732388667604

DESCRIPTION

The MQ7 sensor's sensitivity and selectivity allow it to effectively detect and measure carbon monoxide levels, making it a crucial tool for applications such as gas leakage detection, safety systems, and environmental monitoring. By interfacing the MQ7 sensor with appropriate electronic circuits and microcontrollers like Arduino, you can create systems that provide real-time monitoring and prompt alerts in the presence of hazardous CO concentrations. It needs a bit of time to warm up in order to work correctly.

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. The analog output will differ depending on the intensity of the gas.

Product usage tips:

When gas is detected, the LED will start glowing. It will remain off if it doesn't detect anything. Two mounting holes enable easy mounting to surfaces. The board comes with four male headers that need to be soldered.

TECHNICAL DETAILS

- **Detects:** Carbon Monoxide (CO)
- **Voltage:** 5V
- Digital (HIGH/LOW) and analog (0V-5V) output
- With LM393 comparator
- **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	MQ7
SUPPLY VOLTAGE MIN V	5
SUPPLY VOLTAGE MAX V	5
LOGIC LEVEL	5V Only

LINKS

Open Source Hardware Files	https://github.com/SolderedElectronics/CO-sensor-MQ7-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/333107/media/333107_pinout-png_15d913.jpg

GALLERY

