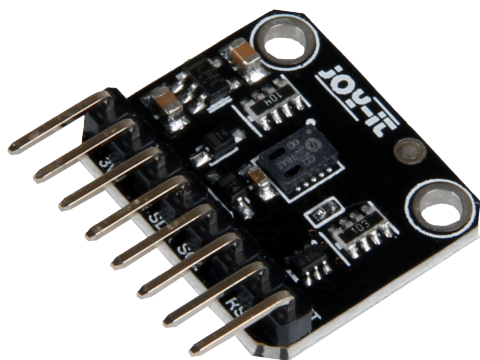


CCS811

Breakout-Board for air quality measurement



The CCS811 is a gas sensor that monitors the air quality and can measure a large number of volatile organic compounds (VOCs).

The sensor data can be converted to a total volatile organic compound (TVOC) or carbon dioxide equivalent (eCO₂) level.

The module has a metal oxide (MOX) sensor and also the option to connect an NTC for temperature measurement.

NOTE A single burn-in of 48 hours and a warm-up time of 20 minutes is recommended before valid data can be expected.

KEY FEATURES

Digital Interface	I2C
Operating Voltage	3-5V
Compatible to	Arduino, Raspberry Pi
Dimensions	21 x 18 x 3 mm
Weight	1.2g
Scope of delivery	CCS811 Sensor

POLLUTANT DETECTION

Total Volatile Organic Compunds (TVOCs)	0 - 1187 ppb
equivalent CO ₂ -Level (eCO ₂)	400 - 8192 ppm
Other pollutants	Metal Oxides (MOX)
Additional connections	Optional NTC for temp. measurement

MODES OF OPERATION

Mode 0	Idle, Low Current Mode
Mode 1	Constant power mode 1 measurement per sec.
Mode 2	Pulse Heating Mode 1 measurement/10 sec.
Mode 3	Low Power Pulse Mode 1 measurement/60 sec.
Mode 4	Constant Power Mode 1 measurement/250 ms

ADDITIONAL INFORMATIONS

Article No.	SEN-CCS811V1
EAN	4250236817989

GP2Y1014AU

Optical sensor for measuring and detecting dust particles



The GP2Y1014AU is an optical sensor for the detection of dust particles.

The light reflected by the dust is detected by an integrated infrared diode and a phototransistor and can thus be determined in an analog value.

KEY FEATURES

Interface	Analog
Operating Voltage	5-7V
Weight	15g
Dimensions	46 x 33 x 18 mm
Scope of delivery	GP2Y1014AU Sensor 6-Pin cable 150Ω resistor 220µF capacitor

SPECIFICATIONS

Operating temperature	-10 - 65°C
Storage temperature	-20 - 80°C
Max. current consumption	20mA
Ø Current consumption	11mA

PARTICLE DETECTION

Min. particle detection	0.8 microns
Sensitivity	0.5V/0.1mg/m ³

ADDITIONAL INFORMATIONS

Article No.	SEN-GP2Y1014AU
EAN	4250236817996