JOY-IT

SEN-MQ5
Analog natural gas sensor module

This analog gas sensor has a small heating part with an electronical chemical sensor. It is suitable for indoor usage. The sensor can output exact values only after warm-up phase.

Caution: sensor gets hot while usage!

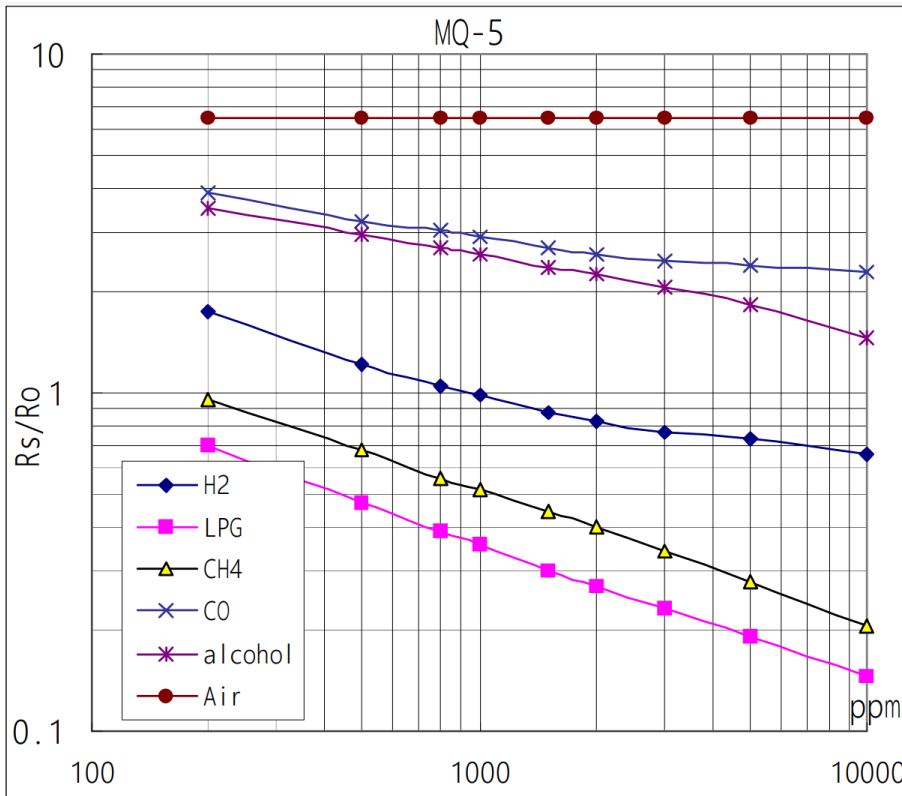| MAIN FEATURES	
Measurement range	50 - 10'000 ppm
Measurable substances	Liquefied petrol gas (LPG), propane, methane, butane and other natural gases
Application areas	Detecting gas leaks, gas alarm, robotic, microcontroller projects
Compatible with	Raspberry Pi (with AD-converter), Arduino. etc.
Special features	High sensitivity, quick reaction time
Dimensions	52 x 20 x 18 mm
Items delivered	SEN-MQ5

FURTHER SPECIFICATIONS	
Analog Output	values will be processed by microcontroller
Digital Output	thresholds can be set
Pins: VCC GND AOUT DOUT	 Voltage supply 5 V Ground Analog output Digital output
Response time	≤ 10 s
Recovery time	≤ 30 s
Load resistance	1,5 KΩ;
Resistance in clean air	≤4000 kΩ
Sensitivity	≥ 4 (in 1000ppm C_4H_{10})

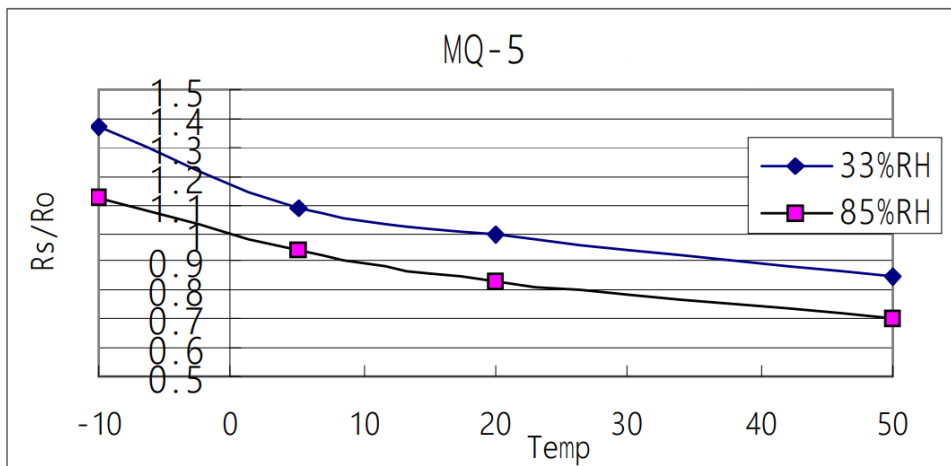| FURTHER DETAILS	
Article No.	SEN-MQ5
EAN:	4250236819969
Customs Tariff No.	90269000

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This shows the typical sensitivity characteristics of the MQ-5. Rs means resistance of the sensor in different gases, Ro means resistance of sensor in 1000ppm H2.

Correlation between sensor resistance(Rs) and ambient temperature and humidity

The resistance of the sensor can be calculated with the following formula:

$$Rs=(Vc/VRL-1)×RL$$

VC= Supply voltage; VRL= Analog pin voltage; RL= Load resistance (1,5k)