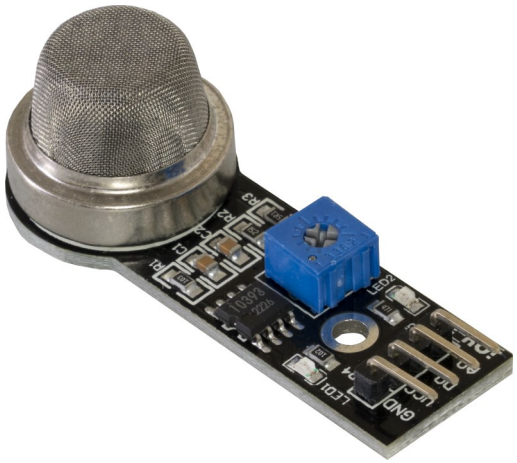
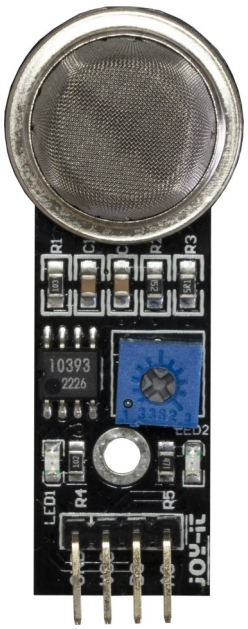
SEN-MQ6

Analog liquefied petrol gas sensor on 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	300 - 10'000 ppm
Measurable substances	Liquefied petrol gas (LPG), propane, methane, butane and other combustible gas
Application areas	Detecting gas leaks, gas alarm, robotic, microcontroller projects
Compatible with	Raspberry Pi (with AD-converter), Arduino. etc.
Special features	High sensitivity for LPG, good sensitivity for combustible gas in a wide range of concentrations
Dimensions	32 x 20 x 22 mm
Items delivered	SEN-MQ6

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 (0 V - 5 V) Digital output (0 V / 5 V)
Heating voltage	5.0 V ± 0.2 V
Heating resistance	31 Ω ±3Ω (room temp.)
Heating power	≤ 900 mW
Surface resistance of sensitive material	2 -20 KΩ in 2000ppm LPG
Operation temperature	-10 - 50 °C

FURTHER DETAILS	
Article No.	SEN-MQ6
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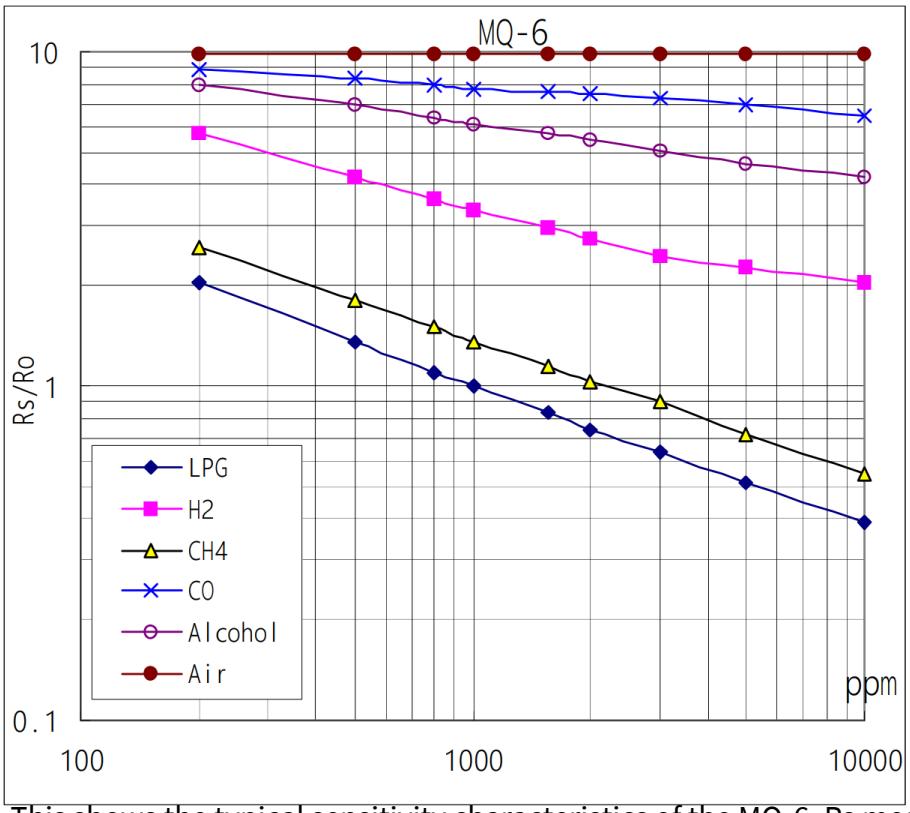
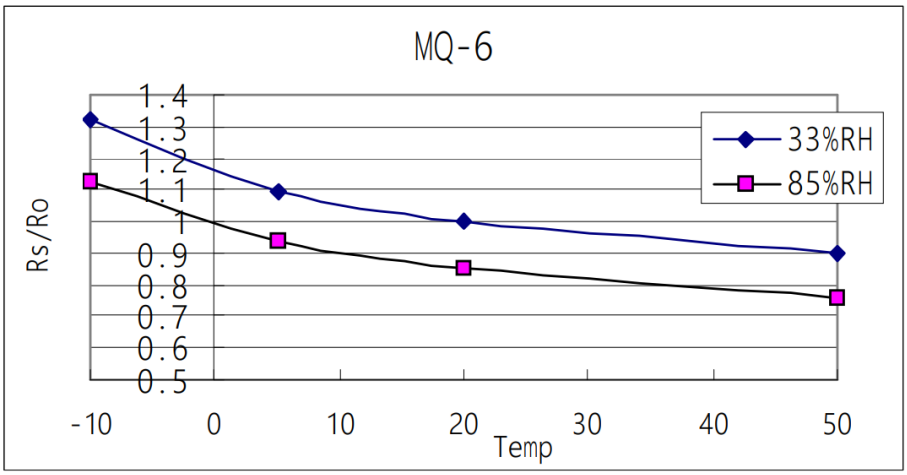


This shows the typical sensitivity characteristics of the MQ-6. Rs means resistance of the sensor in different gases, Ro means resistance of sensor in 1000ppm LPG.



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

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

$$Rs=(Vc/VRL-1)\times RL$$

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

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