

1. Introduction

MH-410V/D infrared gas sensor is a miniature universal intelligent sensor, which adopts NDIR theory to detect concentration of CO₂ in air and has good selectivity, stable performance, long life, also is independent of Oxygen. The inside temperature sensor could be used for temperature compensation. This miniature infrared gas sensor is developed by the tight integration of mature infrared absorbing gas detection technology, micro machine workout and superior circuit design. It is widely used in various occasions with CO₂ gas.

2. Features and main technical parameters

2.1 Features

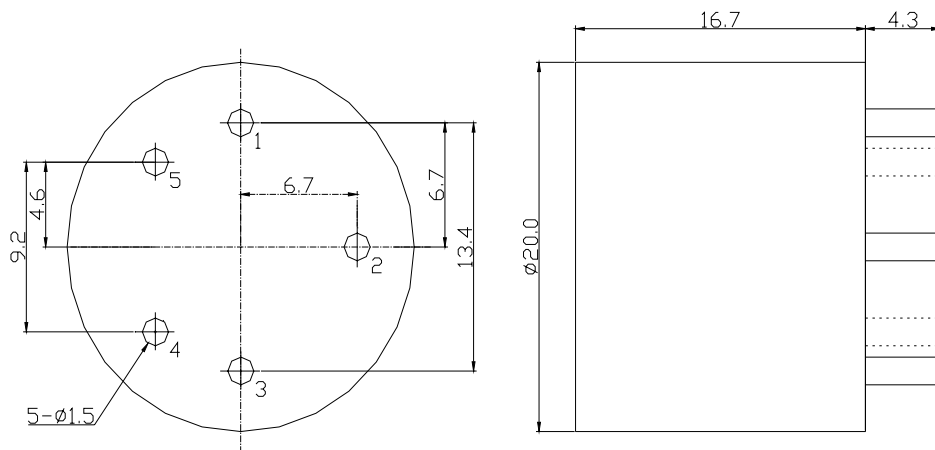
- High sensitivity
- Standard output and signal output
- Miniature figure
- Fast response and resume
- Temperature compensation
- Good stability
- Long life
- Anti-vapor interference
- Instantly convert catalytic theory meter into infrared detection meter



2.2 Main technical parameters

Working voltage	3.5~5.5V dc
Working current	75~85mA
Detection range	0~5%vol (0~100%vol optional)
Resolution	50ppm
Warm-up time	90s
Response time	T ₉₀ <30s
Repeatability	Zero < ±100ppm
	SPAN <±500ppm
Long-term drift	Zero < ±300ppm/month
	SPAN < ±500ppm/month
Temperature range	-20°C ~50°C
Humidity range	0~95%RH
Lifetime	>5 years
Dimension	20*16.6
Weight	20g

3. Configuration dimension



4. Pin definition

1. GND
2. Vout
3. VCC
4. TXD
5. RXD

5. Model selection

This product has two types for your selection:

MH-410V

3 pins—It is same as pins of catalytic sensor, and the linear output supplied is familiar with the ones of catalytic.

MH-410D

5 pins—The 3 pins of them are same as pins of catalytic sensor, and the other two pins are UART pins, which can communicate with circuit directly and offer more choices for users.