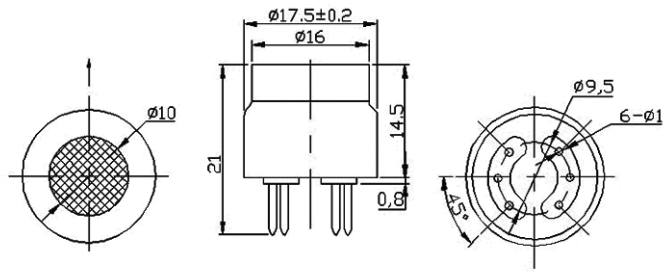


GQ-7



Principle Introduction:

Winsen Electronics is original manufacturer of GQ-7 Carbon Monoxide gas sensor, CO Gas sensor, with 80% market share in gas sensor field.

Sensitive material of GQ-7 gas sensor is SnO₂, which with lower conductivity in clean air. It make detection by method of cycle high and low temperature, and detect CO at low temperature(heated by 1.5V).The sensor's conductivity gets higher along with the CO gas concentration rising. At high temperature(heated by 5.0V),it cleans the other gases adsorbed at low temperature. Users can convert the change of conductivity to correspond output signal of gas concentration through a simple circuit.

Applications:

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Technical parameters:

Model		GQ-7	
Sensor Type		Semiconductor	
Standard Encapsulation		Plastic cap	
Target Gas		carbon monoxide	
Detection range		10~500ppm CO	
Standard Circuit Conditions	Loop Voltage	Vc	≤10V DC
	Heater Voltage	VH	5.0V±0.1V AC or DC (High tem.) 1.5V±0.1V AC or DC (Low tem.)
	Heater Time	TL	60 S±1S (High tem.) 90 S±1S (Low tem.)
	Load Resistance	RL	Adjustable
Sensor character under standard test conditions	Heater Resistance	RH	29Ω±3Ω (room tem.)
	Heater consumption	PH	≤900mW
	Sensitivity	S	Rs(in air)/Rs(in 150ppm CO)≥5
	Output Voltage	Vs	2.5V~4.3V (in 150ppm CO)
	Concentration Slope	α	≤0.6(R300ppm/R50ppm CO)
Standard test conditions	Tem. Humidity	20°C±2°C; 55%±5%RH	
	Standard test circuit	Vc:5.0V±0.1V; VH (High tem.): 5.0V±0.1V; VH (Low tem.): 1.5V±0.1V;	
	Preheat time	Over 48 hours	