Sample test outcomes

Time: 2019.06.27

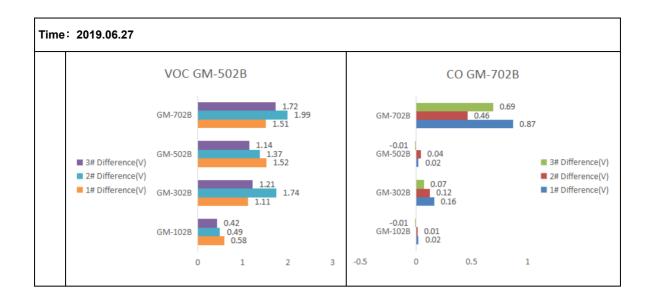
Test conditions: VH=2.5V, VC=3.3V

Type: GM-102B、GM-302B、GM-502B、GM-702B

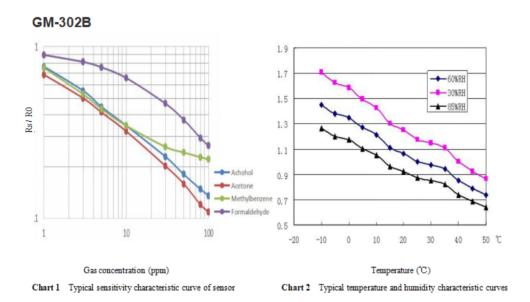
1#	Gas: NO2				Gas: C2H5OH			
	Туре	Initial value(V)	5ppm(V)	Difference(V)	Туре	Initial value(V)	50ppm(V)	Difference(V)
	GM-102B	1.41	0.38	-1.03	GM-102B	1.42	2	0.58
	GM-302B	0.94	0.48	-0.46	GM-302B	0.95	2.06	1.11
	GM-502B	1.42	0.53	-0.89	GM-502B	1.41	2.93	1.52
	GM-702B	1.54	0.55	-0.99	GM-702B	1.35	2.86	1.51

Time	: 2019.06.2	7						
2#	Gas: NO2				Gas: C2H5OH			
	Туре	Initial value(V)	5ppm(V)	Difference(V)	Туре	Initial value(V)	50ppm(V)	Difference(V)
	GM-102B	0.94	0.22	-0.72	GM-102B	0.92	1.41	0.49
	GM-302B	0.45	0.24	-0.21	GM-302B	0.35	2.09	1.74
	GM-502B	1.45	0.49	-0.96	GM-502B	1.51	2.88	1.37
	GM-702B	0.77	0.3	-0.47	GM-702B	0.74	2.73	1.99
3#	Gas: NO2			Gas: C2H5OH				
	Туре	Initial value(V)	5ppm(V)	Difference(V)	Туре	Initial value(V)	50ppm(V)	Difference(V)
	GM-102B	1.29	0.27	-1.02	GM-102B	1.2	1.62	0.42
	GM-302B	1.12	0.61	-0.51	GM-302B	1.12	2.33	1.21
	GM-502B	1.82	0.58	-1.24	GM-502B	1.72	2.86	1.14
	GM-702B	1.06	0.37	-0.69	GM-702B	1.08	2.8	1.72
1#	Gas: CO							
	Туре	Initial value(V)	150ppm(V)	Difference(V)	Types of sensors		Gases measured	
	GM-102B	1.31	1.33	0.02	GM-102B		NO2	
	GM-302B	0.72	0.88	0.16	GM-302B		C2H5OH	
	GM-502B	1.33	1.35	0.02	GM-502B		VOC	
	GM-702B	1.22	2.09	0.87	GM-702B		СО	

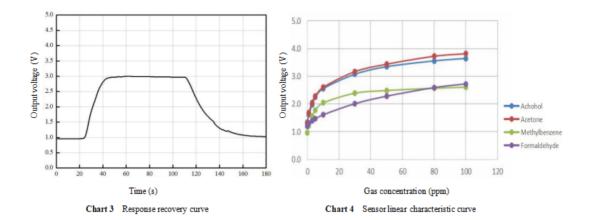
Time: 2019.06.27							
2#	Gas: CO						
	Туре	Initial value(V)	150ppm(V)	Difference(V)			
	GM-102B	0.94	0.95	0.01	NOTICE: When it comes to judging what the gas		
	GM-302B	0.36	0.48	0.12	is, GM-102B can be taken as an example. As it can be seen from the four charts above and		
	GM-502B	1.46	1.5	0.04	beside, GM-102B has participated three times for each gas detecting. And its number of		
	GM-702B	0.72	1.18	0.46	differences peaked at the most under the atmosphere of NO2 than other gases. Therefore		
3#	# Gas: CO				GM-102B is sensible to NO2 and accordingly is		
	Туре	Initial value(V)	150ppm(V)	Difference(V)	able to detect NO2, which is applicable to other sensors and sorts of gases as well. When being put under other kinds of gases, the sensor is		
	GM-102B	1.18	1.17	-0.01	able to detect the gas which makes it the most differences.		
	GM-302B	1.18	1.25	0.07			
	GM-502B	1.72	1.71	-0.01			
	GM-702B	1.01	1.7	0.69			
	NO2 GM-102B				C2H5OH GM-302B		
		-	-0.69 -0.4	47 GM-702B	GM-702B 1.72 1.99		
	-1.24 3# Difference(V) 2# Difference(V) 1# Difference(V) -0.96 -0.89 -0.89 -0.51 -0.3M-302B			GM-502B	1.14 GM-502B 1.37 1.52 ■ 3# Difference(V)		
				-0.@1M-302B	GM-302B 1.21 1.74 2# Difference(V) 1.11 1.74		
			-0.72 -0.72	GM-102B	GM-102B 0.42 0.49 0.58		
		-1.5	-1	-0.5 0	0 0.5 1 1.5 2 2.5		



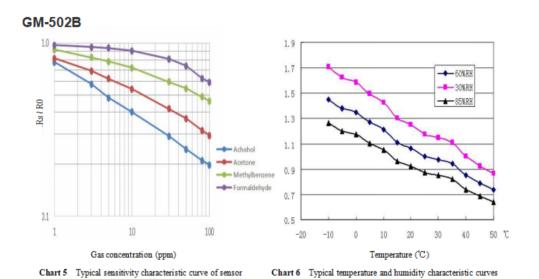
Characteristic descriptions



Rs in the figure represents the resistance value of the sensorin different concentrations of gas; R0 represents the resistance value of the sensor in clean air. All tests in the picture are completed under standard test conditions. Yellow line is Toluene, blue line is Ethanol, red line is Acetone and purple line is Formaldehyde, which is the same as the ones in charts below.



The output voltage in Chart 3 is the voltage across the load resistance (RL) of the sensor in series. The test in the figure is completed under standard test conditions, with a test gas of 50 ppm ethanol. The output voltage in Chart 4 is the voltage across the load resistance (RL) of the sensor in series. All tests in the figure are completed under standard test conditions.



Rs in Chart 5 represents the resistance value of the sensorin different concentrations of gas; R0 represents the resistance value of the sensor in clean air. All tests in the picture are completed under standard test conditions. Yellow line is Toluene, blue line is Ethanol, red line is Acetone and purple line is Formaldehyde, which is the same as the ones in charts below. In Chart 6, Rs represents the resistance value under 50ppm ethanol and various temperatures / humidities; Rs0 represents the resistance value under 50ppm ethanol, 20 °C and 55% RH.

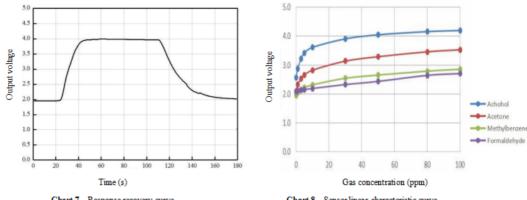
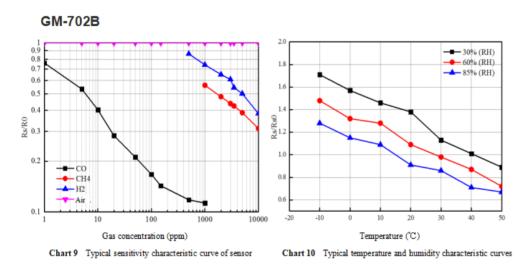
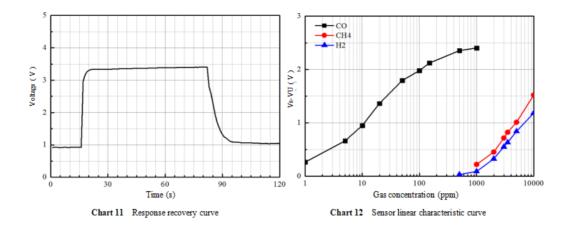


Chart 7 Response recovery curve Chart 8 Sensor linear characteristic curve

The output voltage in Chart 7 is the voltage across the load resistance (RL) of the sensor in series. The test in the figure is completed under standard test conditions, with a test gas of 50 ppm ethanol. The output voltage in Chart 8 is the voltage across the load resistance (RL) of the sensor in series. All tests in the figure are completed under standard test conditions.



In Chart 9, Rs represents the resistance of the sensor in different concentrations of gas Value; R0 represents the resistance value of the sensor in clean air. All tests in the picture are completed under standard test conditions. The black line is for CO, red one is CH4, Purple is for H2 and pink one is Air.In Chart 10, Rs represents the temperature at 150ppmC0 and various temperatures / humidities. Resistance value; Rs0 means resistance value under 150ppmCO, 20 °C, 55% RH.



The voltage in Chart 11 is the voltage across the load resistance (RL) of the sensor in series. The test in the picture is completed under standard test conditions, test gas 150ppmC0. The output voltage in Chart 12 is the voltage across the load resistance (RL) of the sensor in series. All tests in the picture are completed under standard test conditions.