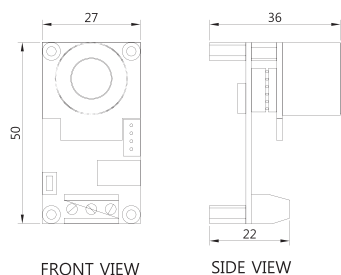


Gas sensor module SM16X1

Generally, the gas sensor could be divided as 4 kinds such as the electric chemical type, the semi-conductor type, the optic type, the catalytic. The application of each sensor type is quite different. It is important to adopt the proper gas sensor depend on the gas type, environmental factor in the using area, sensing range, resolving ability, cost, etc. Senko Co., Ltd is trying to provide the most proper gas sensor and modules depend on customers' requests, keeping lots of the technology development and Know How related with the gas sensor.



- The carbon dioxide sensor module sequenced with the air conditioner
- The smell sensor module for home appliance (TVOC sensor adopted)
- Hydrogen detecting module for the fuel battery
- Electric sensor transmitter only for the electric chemical sensor type
- Concentrated Oxygen Sensor Modules for the Oxygen Generator
- Concentrated Odor sensor module
- Module related with the electronic nose

Model	SM16X1						
Measuring gas	O ₂	O ₂	CO	H ₂ S	H ₂	H ₂	NH ₃
Measuring type	Diffusion Type						
Measuring method	Electrochemical	Electrochemical	Electrochemical	Electrochemical	Electrochemical	Catalytic combustion	Electrochemical
Measuring range	0~100%	0~30%	0~500ppm 0~1000ppm	0~100ppm	0~1000ppm	0~100%LEL	0~100ppm
Sensor life time	> 18 month	> 24 month	> 24 month	> 24 month	> 24 month	> 2 year	> 24 month
Response time	T90 < 5 sec	T90 < 15 sec	T90 < 15 sec	T90 < 30 sec	T90 < 30 sec	T90 < 10 sec	T90 < 90 sec
Accuracy	±3%/Full scale						
Sensitivity	0.10%	0.10%	1ppm 3ppm	0.5ppm	5ppm	1%LEL	0.5ppm
Output signal	4-20mA						
Operating temperature	-10 ~ 50°C						
Operating humidity	15 ~ 90%RH						
Operating power	9 ~ 30VDC (Max 80mA @ 12VDC) (Galvanic, Electrochemical - 10~15mA, IR or Catalytic - 50mA)						
Dimensions	50(W) × 27(H) × 36(D)						
Weight	Module 26g						
Measuring gas	SO ₂	NO ₂	NO	CH ₄	CH ₄	CO ₂	
Measuring type	Diffusion Type						
Measuring method	Electrochemical	Electrochemical	Electrochemical	Catalytic combustion	IR	IR	
Measuring range	0~20ppm	0~20ppm	0~250ppm	0~100%LEL	0~100%vol 0~100%LEL (0~5%vol)	0~2000ppm 0~5000ppm	
Sensor life time	> 24 month	> 24 month	> 24 month	> 2 year	> 2 year	> 2 year	
Response time	T90 < 35 sec	T90 < 50 sec	T90 < 45 sec	T90 < 10 sec	T90 < 30 sec	T90 < 30 sec	
Accuracy	±3%/Full scale						
Sensitivity	0.1ppm	0.1ppm	1ppm	1%LEL	1%vol 1%LEL	3ppm 7ppm	
Output signal	4-20mA						
Operating temperature	-10 ~ 50°C						
Operating humidity	15 ~ 90%RH						
Operating power	9 ~ 30VDC (Max 80mA @ 12VDC) (Galvanic, Electrochemical - 10~15mA, IR or Catalytic - 50mA)						
Dimensions	50(W) × 27(H) × 36(D)						
Weight	Module 26g						