4O2 Electrochemical oxygen sensor

Features	Application Field
High sensitivity High precision Linear output Unique leak-proof structure	Oxygen monitoring for industrial use Oxygen monitoring in environmental protection field Oxygen monitoring in mine area Oxygen detection in storage area

Product description

4O2 oxygen sensor is a galvanic cell type sensor, which uses the reduction reaction of oxygen on the working electrode and the corresponding reduction reaction of cathode material to generate current. The current generated is proportional to the oxygen concentration. The oxygen concentration can be determined by testing the current size.

PERFORMANCE	
Measure Gas	Oxygen (O2)
Measuring Range	0-25%VOL
Overload	30%VOL
Sensitivity	3.8-5.7uA/vol%
Zero Drift	＜0.2%vol
Resolution	0. 1%VOL
Response Time (t90)	＜10s
Output linearity	Linearity
ENVIRONMENT	
Operating Temperature	-40 –+50C
Relative Humidity	15% -95%RH (no condensation)
Operating Pressure Range	1 ± 0. 1 Standard atmospheric pressure
LIFE WARRANTY	
Long-term Output Drift	<5% Every year
Recommended Storage Environment	0-20C in a closed container
Expected Operating Life	24 months in the air
Shelf Life	Original package is 6 months
Warranty Period	12 Months

Structure and size

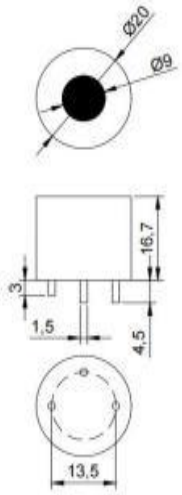

Figure 1: Unit: mm

If not specified, all work differences were ± 0.1mm

Temperature characteristic

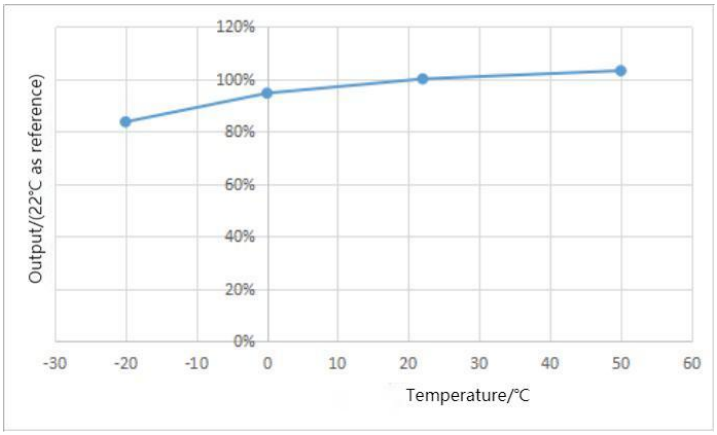

Figure 2 : Temperature and compensation compensation curve

Long-term stability

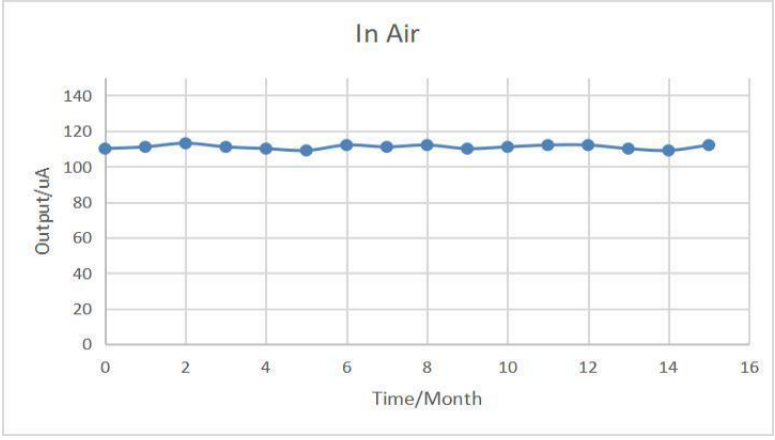

Figure 3 : Long-term stabilityFigure 3 : Long-term

Note: The above life test data are only the test results in the laboratory, and the actual service life should be determined according to the field environment usage.

Cross-sensitive data

Toxic gases are not too cross-sensitive to 4O2 oxygen sensors at allowable concentrations. At high concentrations, highly oxidized gases (such as percent grade ozone, chlorine gas) can interfere with the diffusion of oxygen, but most ordinary gases do not affect them.

Safety note

- Welding lead, no contact sensor;
- Power-on aging time is not less than 30min;
- Avoid long-term contact with organic volatile solvents and high concentration of other solvent steam;
- Storage or use in a suitable environment to avoid acid-alkali environment;
- Avoid excessive shock or vibration of the sensor;