# Chlorine Gas Sensor



**S1017 Chlorine Gas Sensor**

Measuring range: 0 ~ 10ppm

Accuracy: ±1%F.S

Resolution: 0.1ppm

The working principle of Chlorine Gas Sensor is measuring concentration of chlorine by using electrochemistry. The probe consists of electrode and electrolyte. The electrolyte is separated by a selective gas-permeable membrane. The gas diffusing in sensor occurs redox reaction on the surface of electrode. Current is generated in the electrode. The value of current is corresponding to the concentration of chlorine gas. Sensor converts the signal in electrode into analog signal.

**Component**

|  |  |  |  |
| --- | --- | --- | --- |
| No. | Model | Name | Picture |
| 1 | S1017 | Chlorine Gas Sensor | C:\Users\Administrator\Desktop\圆盘传感器玥玥\S1017 氯气.pngS1017 氯气 |
| 2 |  | Chlorine Gas Sensor electrode | C:\Users\Administrator\Desktop\圆盘传感器玥玥\气体类探头.png气体类探头 |

**Usage**

Connect Chlorine Gas Sensor to any port in SenseDisc.

Expose the Chlorine Gas Sensor electrode in the environment with chlorine to measure data.

**Typical experiment**

Generate chlorine gas by heating manganese dioxide and concentrated hydrochloric acid.

**Notes**

The electrode is gas-permeable membrane electrode. Try not to break the membrane when assembling the device.

Chlorine gas is poisonous. Be careful and take precautions during using.