



### Electrochemical Oxygen Gas Sensor (SS1118)

Electrochemical oxygen gas sensor(SS1118) is of a galvanic cell type. SS1118 measure partial pressure of oxygen in air. SS1118 controls oxygen flow with non-porous membrane. SS1118 requires no special preparation or calibration-just plugs it into your interface then it is ready to take readings. SS1118 offers superior performance over the conventional oxygen sensor in the fact that SS118 is not affected by CO<sub>2</sub>, CO and NO<sub>x</sub>. SS1118 also show fast response property, high stability and a long life time.



### Electrochemical Oxygen Gas Sensor (SS2118)

Electrochemical Oxygen Gas sensor Electrochemical oxygen gas sensor(SS2118) controls oxygen gas flow with micro capillary hole. The output of SS2118 is linearly proportional to the oxygen concentration in the range of 0~30%. SS2118 doesn't measure the partial pressure of oxygen but the volume percent of oxygen in air. The output of SS2118 is very stable under operational temperature range.

| Operating Condition     |                         |                         |
|-------------------------|-------------------------|-------------------------|
| Sensor                  | Qxygen(SS1118)          | Qxygen(SS2118)          |
| Temperature range       | -20~50□                 | -10~50□                 |
| Relative humidity range | 0~99% RH                | 0~99% RH                |
| Pressure range          | Atmospheric±10%         | Atmospheric±10%         |
| Specifications          |                         |                         |
| Detection gas           | Qxygen(O <sub>2</sub> ) | Qxygen(O <sub>2</sub> ) |
| Detection range         | 0~99%                   | 0~30%                   |
| Output signal           | 6±1mV in air            | 90±20μA in air          |
| Response time (T90)     | ≤ 10 sec                | ≤ 15 sec                |
| Typical baseline range  | ≤ 0.1%                  | ≤ 0.1%                  |

|  |   |   |
|--|---|---|
| Output linearity                             | 선형성   | 선형성   |
| Repeatability                                | ± 0.5%  | ± 0.5%  |
| Expected lifetime                            | 2year   | 2year   |
| <b>Physical Characteristics Applications</b> |   |   |
| Weigh  | 6   | 16g   |
| Dimension                                    | φ~20.4mm,<br>h~16.6mm   | φ~20.4mm,<br>h~16.6mm   |
| Storage life                                 | 3 months  | 6 months  |
| Warranty period                              | 18 months   | 24 months   |
| Applications                                 | Combustion<br>efficiency analyzer,<br>Food storage, Gas<br>mixer, Medical<br>sensor, Scuba<br>sensor, Dissolved<br>oxygen | Ideal for portable<br>instrument,<br>Industry,safety,<br>boiler room etc. |