



Winson ME2-O2-Φ20 Electrochemical Oxygen Sensor User Manual

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Winson ME2-O2-Φ20 Electrochemical Oxygen Sensor

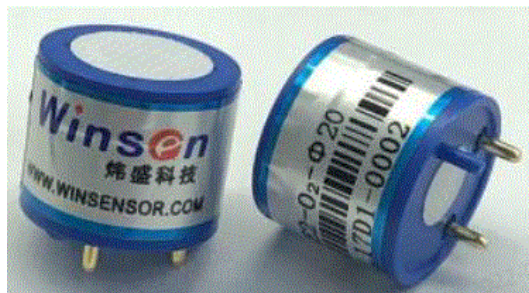


ME2 O 2 Φ20 Oxygen Sensor

ME2-O2-Φ20 electrochemical sensor detect gas concentration by measuring current based on the electrochemical principle, which utilizes the electrochemical oxidation process of target gas on the working electrode inside the electrolytic cell, the current produced in electrochemical reaction of the target gas are in direct proportion with its concentration while following Faraday law, then concentration of the gas could be get by measuring value of current.

Features

- Low consumption
- High precision
- High sensitivity
- Wide linear range
- Good anti-interference ability
- Excellent repeatability and stability



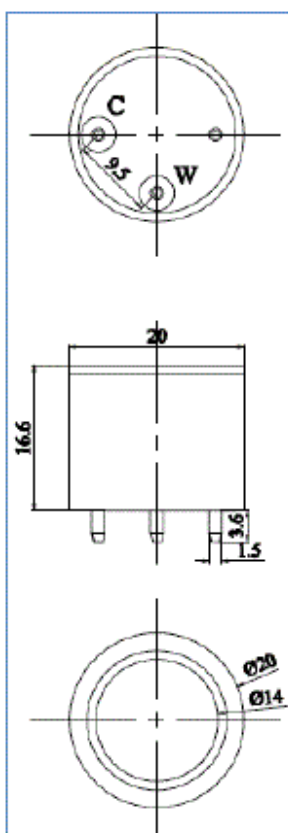
Application

Detecting O₂ in mine, industry and environmental protection field

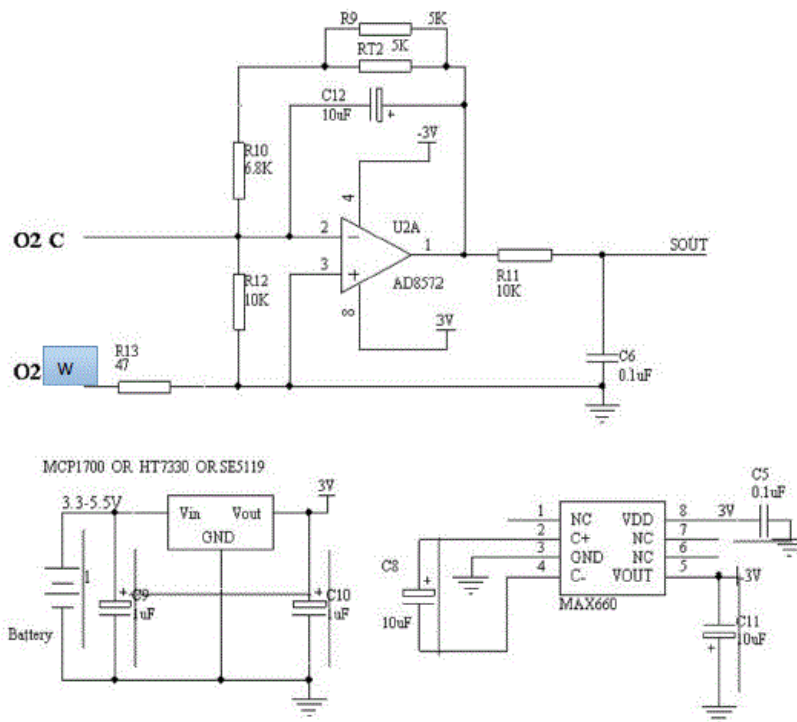
Technical Parameter

Item	Parameter
Detection gas	O ₂
Measurement Range	0 25%Vol
Max detecting concentration	30%Vol
Sensitivity	0.08-0.25 mA (In air)
Response time (T90)	≤15S
Load resistance (recommended)	100Ω
Repeatability	2 output value
Stability month	2
Zero drift -20°C 40°C	≤1%vol
Storage temperature	-20°C 50°C
Storage Humidity	0 99 RH (no condensation)
Pressure range	normal atmosphere±10%
Anticipated using life	2 years

External dimension

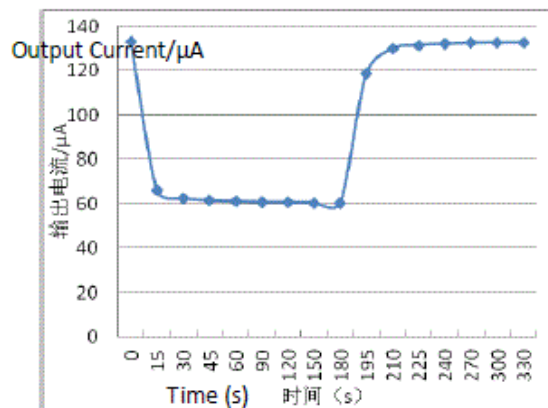


Basic Circular

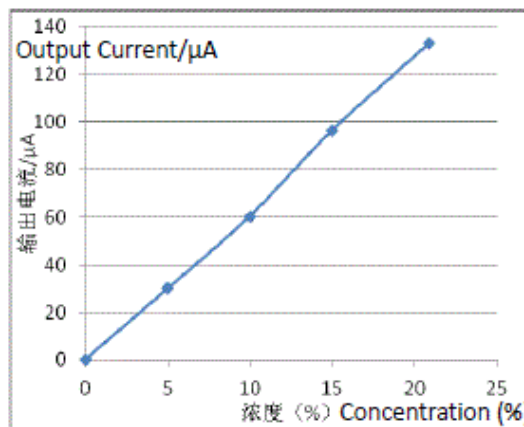


Characterization

Features of Sensitivity, response and recovery



Data graph of concentration linearity features



Application Notes

- Soldering for pins are prohibited during installation;
- Pins are prohibited from being broken and bent; Electrolyte leakage may cause damage, please do not

disassemble the sensor at will;

- To avoid contact with organic solvents (including silica gel and other adhesives), paints, chemicals, fuel oils and high concentrations of gases;
- All electrochemical sensors can't be completely encapsulated with resin material, nor can they be immersed in an oxygen-free environment, otherwise the performance of the sensor may be damaged;
- All electrochemical sensors should not be used in environments containing corrosive gases, which can damage the sensor;
- When testing and applying the sensor, please avoid vertical front air intake;
- The intake surface of the sensor shall not be blocked or contaminated;
- The waterproof and breathable membrane above the sensor is forbidden to be uncovered or damaged;
- The sensor should not be subjected to excessive impact or vibration;
- Do not use the sensors if the casing is damaged or deformed;
- It is slow to return to the initial state after long-term use in a high concentration gas environment;
- The working electrode and the reference electrode should be in an open state when the sensor is stored;
- It is forbidden to package the sensor with hot melt adhesive or sealant with curing temperature above 80 °C;
- It is forbidden to store and use the sensors in high concentration acid gas for long time.

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Documents / Resources

	<p>Winsen ME2-O2-Φ20 Electrochemical Oxygen Sensor [pdf] User Manual</p> <p>ME2-O2- 20, Electrochemical Oxygen Sensor, ME2-O2- 20 Electrochemical Oxygen Sensor, Oxygen Sensor, Sensor</p>
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References

- © [Winsen Gas Sensor CO2 Sensor Air Quality Sensor Dust Sensor CO Sensor-Winsen Electronics](#)
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