Maxell SK-25 Oxygen Sensor

characteristic：

* Almost unaffected by CO 2, CO, H 2 S, NO and H 2
* Has a temperature compensation circuit
* Very good linear output

:: No venue restrictions
:: Stable signal output
* Sensor does not require external power supply
No preheating required

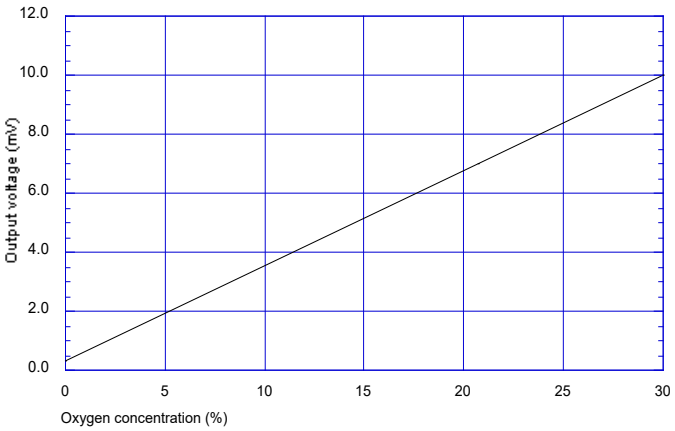
apply：

:: Safety area-oxygen monitors
Environmental control-combustion gas monitoring
:: Food industry-refrigeration, greenhouses
:: Education-Scientific experimental equipment

The Maxell Oxygen Sensor SK-25 is a distinctive galvanic cell-type device. Its standout features include exceptional resistance to carbon monoxide (CO) interference, outstanding linearity at 30% oxygen concentration, and remarkable chemical stability. These robust characteristics make the SK-25 ideal for diverse oxygen monitoring applications, such as combustion gas detection, biochemical field measurements, and household gas appliance monitoring systems.

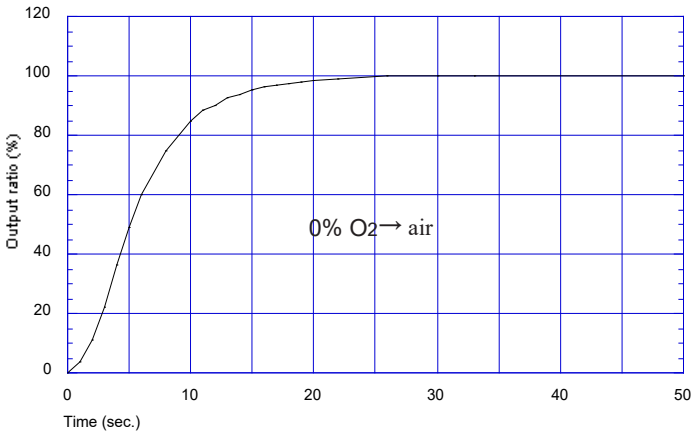
Sensitivity characteristics:

(Typical data under standard test conditions)

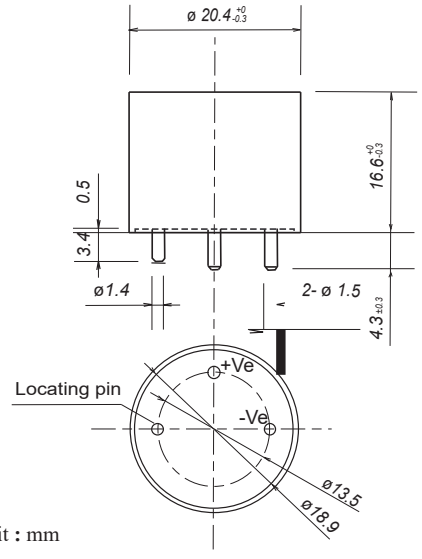


response time：

(typical case)



Structure and size:



Unit：mm

If not specified, all tolerances are ±0.2mm.

Note: When the sensor is shipped, seal the gas diffusion hole with blue tape to reduce the consumption of the sensor during storage. Remove this blue tape before testing the sensor output.

specifications：

project		model
		SK-25
Scope of detection		0~30% O_2
Accuracy (Tip 1)		±1% full scale
going	atmospheric pressure	1013hPa±20%
	temperature	-10°C~50°C
	relative humidity	0~99%RH (No condensation)
Response time (90%) (Note 2)		⩽ 15 seconds
Initial output voltage under factory test conditions		5.5~8.5mV
Factory test conditions	atmospheric pressure	1013hPa
	temperature	25°C±5°C
Life expectancy in general air at 20. C (Hint 3)		Approx. 3 years

Tip 1: If the two oxygen concentrations of 0% and 30% are used for calibration, the accuracy of SK-25 full range is ±1% when the oxygen content ranges from 0% to 30%.

Tip 2: In order to meet the response speed specified in Table 1, the sensor should be used under the condition that the air exchange speed is greater than 200-300ml/min.

Tip 3: 20±1. The expected life in C/60±5%RH normal air (1013±5hPa/20.7%O 2) refers to the sensor output value falling to 60% of the original value.

* Please refer to the technical information on limited warranty and liability for the Maxell Oxygen Sensor SK-25.

*SK series oxygen sensors are designed, manufactured, and tested solely for use in industrial applications. These products are not specifically designed, manufactured, or tested for use in ventilators, respiratory machines, and/or other medical devices, or their component modules or parts.

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