

Maxell Oxygen Sensor KE-Series

characteristic : _____

- * Long life, 2.5-10 years in the air environment
- * Almost unaffected by CO, CO₂, H₂S, NO_x, H₂
- * low cost
- :: Normal temperature operation
- :: Stable signal output
- * Sensor does not require external power supply
- No preheating required

apply : _____

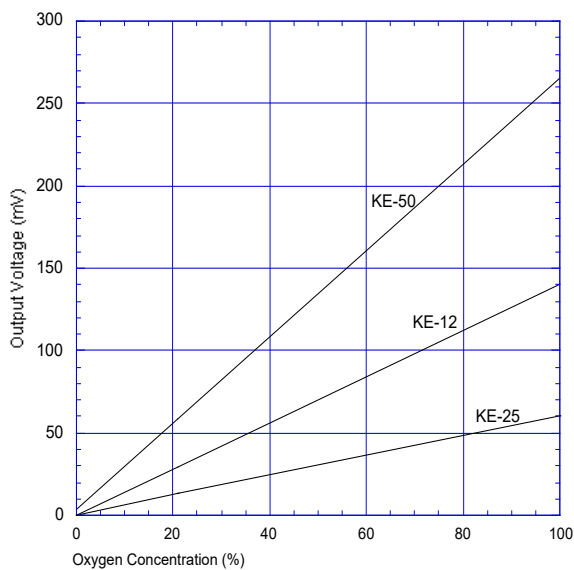
- :: Biotechnology-oxygen incubators
- :: Food industry-refrigerants, greenhouses
- :: Safety areas-air conditioning, oxygen detectors, fire detectors

The Maxell Oxygen Sensor KE Series (KE-12/KE-25/KE-50) is a unique galvanic cell oxygen sensor. Its standout features include an exceptionally long service life, excellent chemical stability, and strong resistance to CO₂ interference. Developed to meet the growing demand for oxygen detection across various industries, such as combustible gas monitoring, biotechnology applications, and residential gas appliance safety, this series delivers reliable performance in diverse scenarios.



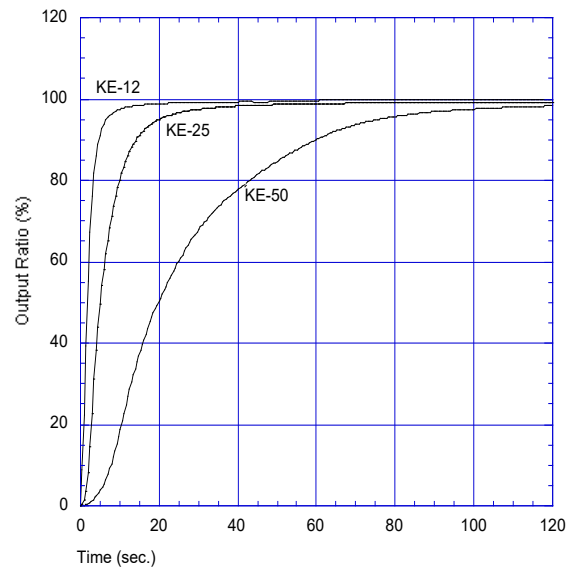
Sensitivity characteristics:

(Typical data under standard test conditions)



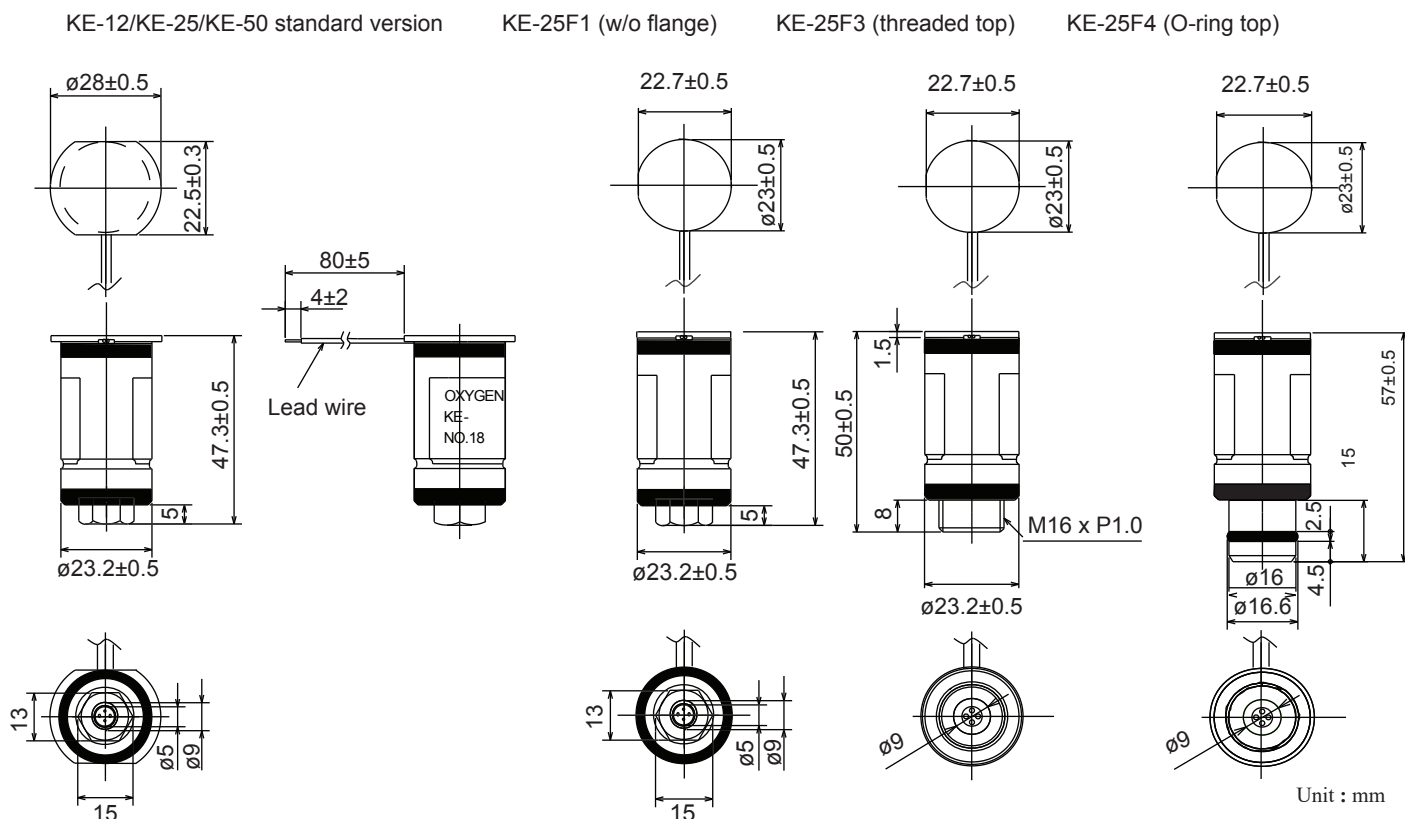
response time : _____

(typical case)



Important Notice: The application conditions for Feigaro sensors may vary depending on specific customer requirements. Feigaro strongly recommends consulting our technical team prior to use, particularly when the detected gas is not listed. Feigaro assumes no liability for any usage that has not undergone professional testing by Feigaro.

dimensional drawing :



specifications :

project	model		
	KE-12	KE-25	KE-50
Scope of detection	0~100% O ₂		
Precision (note 1)	± 1% (full scale)	± 1% (full scale)	± 2% (full scale)
going	atmospheric pressure	811hPa~1216hPa	
	temperature	5~40°C	
	relative humidity	10~90%RH (no condensation)	
Response time (90%) (Note 2)	About 5 seconds	About 15 seconds	About 60 seconds
Initial output voltage under factory test conditions	19.0~35.0mV	10.0~15.5mV	47~65mV
Factory test conditions	atmospheric pressure	1013 hPa	
	temperature	25±5°C	
20. C Life expectancy in normal air(note 3)	Approximately 2.5 years	About 5 years	About 10 years

explanatory note :

- 1) If 0% and 100% oxygen concentrations are used for calibration, the accuracy of KE-12 and KE-25 full range is ±1% when the oxygen content is 0 ~ 100%, and the accuracy of KE-50 full range is ±2%.
- 2) In order to meet the response speed in the specification sheet, the sensor should be used under the condition that the air exchange rate is greater than 200-300ml/ min.
- 3) 20. C Normal air (1013 hPa/ 20.7%O₂) life refers to the period when the sensor output value drops to 70% of the initial value.

* Please refer to the limited warranty and liability limits in the Maxell KE Series Oxygen Sensor Technical Manual; The KE Series Oxygen Sensor is specifically designed, manufactured, and tested for industrial applications. The product's design, manufacturing, testing, and intended use are not intended for ventilators, respirators, or other medical devices, including modules, components, or parts used in such equipment. The KE Series Oxygen Sensor has never been authorized as a critical component in life-support applications. Product failure or malfunction may result in personal injury or life-threatening risks.

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