

# Figaro Oxygen Sensor SK-25F

### Features:

- \* Virtually no influence from CO2, CO, H2S, NO, H2
- \* Temperature compensation circuit included
- \* Good linearity
- \* No position dependency
- \* Stable output signal
- \* No external power supply required for sensor operation
- \* No warmup time is required

## **Applications:**

- \* Safety Air conditioners, oxygen detectors, fire detectors, fuel cell systems
- \* Measurement Oxygen monitors in flue gas
- \* Biotechnology Oxygen incubators, anaerobic cultivators
- \* Food industry Refrigeration, greenhouses

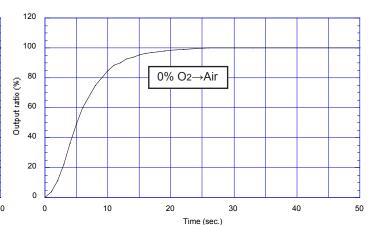
The Figaro Oxygen Sensor SK-25F is a unique galvanic cell type oxygen sensor. Its most notable features are no influence from CO2, good linearity up to 30% oxygen, and excellent chemical durability. This feature makes the sensor ideal for oxygen monitoring in various applications such as the biochemical field, food industry, and domestic safety applications.



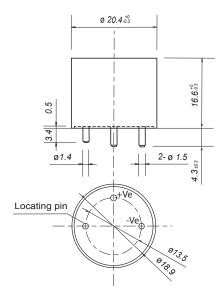
# **Sensitivity characteristics** (typical values under std. test conditions)

# 12.0 10.0 10.0 8.0 2.0 0.0 0 5 10 15 20 25 30 Oxygen concentration (%)

### Response time (typical)



#### **Dimensions**



u/m: mm
If not specified, all tolerances are ±0.2 mm

**NOTE**: When the sensor is shipped, blue tape covers the gas diffusion holes to minimize consumption of the sensor life during storage. Before measuring sensor output, the tape should be removed.



### **Specifications**

Item		Model
		SK-25F
Measurement range		0~30% O2
Accuracy (Note 1)		±1% full scale
Operating conditions	Atmospheric pressure	1013hPa ± 20%
	Temperature	-10°∼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
Featory test conditions	Atmospheric pressure	1013hPa
	Temperature	25°±5°C
Life expectancy at 20°C in normal air (Note 3)		approx. 3 years

#### Notes:

- 1) When calibrated at both 0% and 30% of O2, accuracy in the range from 0-30% O2 shall be within ±1% full scale.
- 2) Sensors should be used under conditions where the air exchange is greater than 200~300ml/minute in order to obtain the response speed as specified in Table 1.
- 3) Life expectancy at  $20^{\circ}$ C in normal air (1013hPa / 20.7% O2) is defined as the period until sensor output drops to 60% of original value.

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