FIGARO

PRODUCT INFORMATION

Maxell Dissolved Oxygen Sensor KDS-25B

Features:

* Long life
* Virtually no influence from CO_2
* No external power supply required for sensor operation
* No warmup time is required

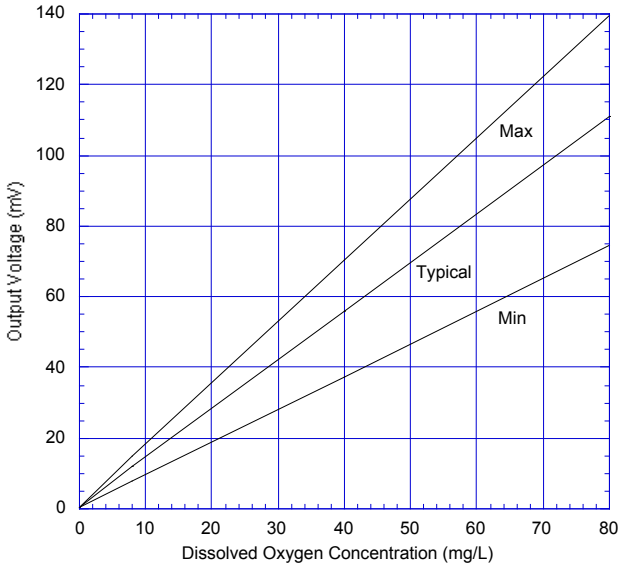
Applications:

* Water quality control

The Maxell Dissolved Oxygen Sensor KDS-25B is a unique galvanic cell type sensor which was developed for water quality control. Its most notable features are long life expectancy and no influence by CO_2.

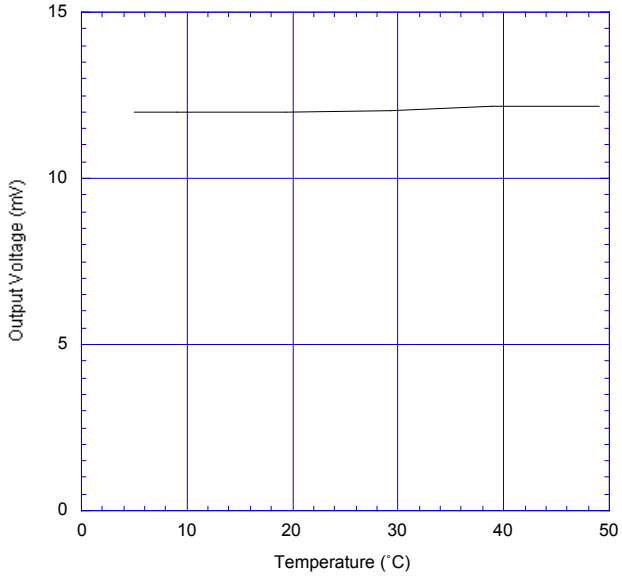
Sensitivity Characteristics

The figure below represents typical sensitivity characteristics to dissolved oxygen in 25˚C water. The X-axis is indicated as dissolved oxygen concentration in water (mg/L). The Y-axis is indicated as sensor output voltage (mV).

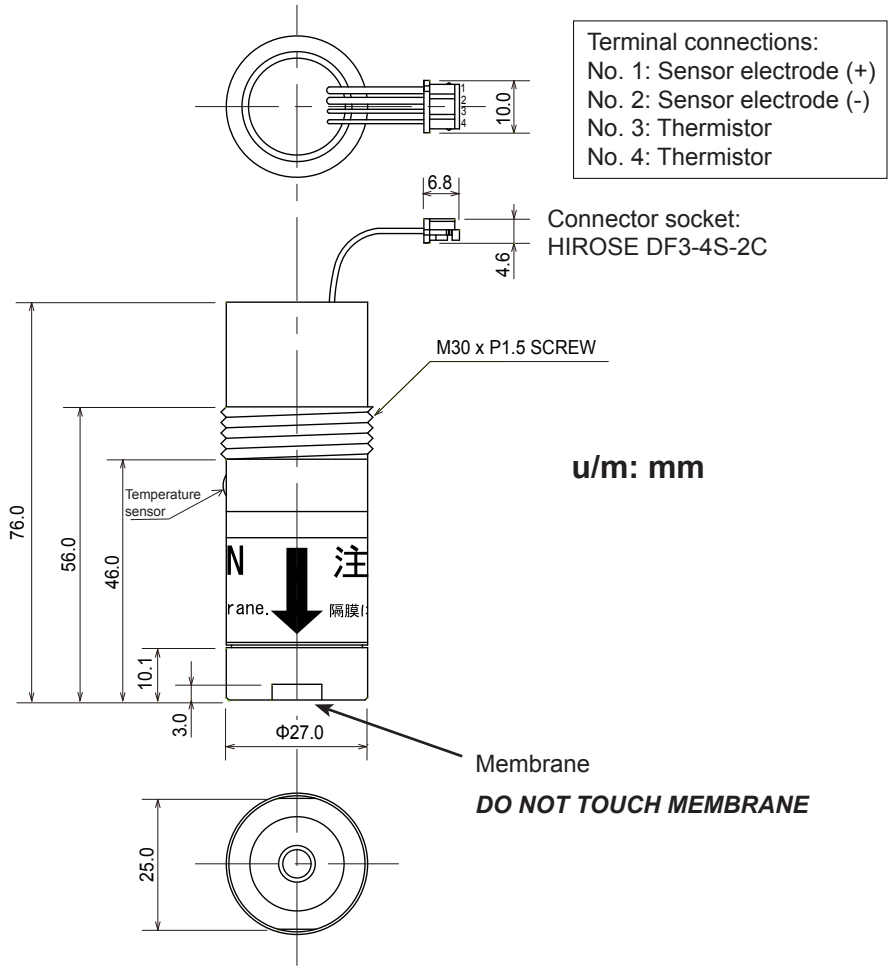


Temperature Dependency (typical)

The figure below represents typical temperature dependency characteristics. The Y-axis is indicated as sensor output voltage (mV).



Dimensions



Specifications

Item		Specification
Model number		KDS-25B
Measurement range		0~80mg/L dissolved oxygen
Accuracy		±5% (full scale in water at 25±1˚C)
Operating conditions	Pressure	81~203kPa (corresponds to water depth of 10m)
	Temperature in water	5~35˚C
Thermal time constant of temperature sensor (T90)		10 min. or less
Initial output voltage in clean air under standard test conditions		8.0~15.0mV
Standard test conditions	Atmospheric pressure	1013±5hPa
	Temperature	25±1˚C
	Relative humidity	60±5%RH

REV: 07/18

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