Specifications of the Dissolved Oxygen Sensor JKS25Bww.DataS

1. Scope

This specification applies to the dissolved oxygen sensor, model JKS25B.

2. Appearance and Dimensions

Appearance and dimensions of the JKS25B sensor as per attached drawing No. 90DO-09B.

3. Specification

Output Voltage in air: 5.6mV~15.0mV

under the conditions of 1013±5hPa, 60±5%RH, and 25±1°C.

- 4. Characteristicsddfda4±
- 4-1. Oxygen Concentration-Output Voltage Characteristics(Linearity).

±5%/Full scale at the water temperature of 25±1°C when Full scale is below 10ppm of the dissolved oxygen

- 4-2. Response speed of the water temperature sensor
 - 90% response time shall be within 10 minutes.
- 5. Storage & Operating Conditions
- 5-1. Temperature range : $5\sim35^{\circ}\text{C}$
- 5-2. Operating pressure range: -0.2~1.0kgf/cm2 gage(Depth of water=10m)
- 5-3. Direction of sensor when installation

The sensor body shall be fixed keeping the sensing element horizontal or down. The sensor output may change transitionally when the vibration or shock is applied to the sensor or its position is changed.

6. Absolute maximum operating conditions

Accumulated total operating time under the following conditions: 24 hours Max.

- a)Temperature: Lower limit: -10°C Upper limit: 50°C
- b)Pressure: Lower limit: 0.5atm Upper limit: 2.5atm

7. Replacement

Replace of the sensor is recommendable when the output voltage in air is below 5.6mV under the test conditions of atmospheric pressure 1013±5hPa, 60±5%RH, and

25±1°C. The sensor life expectancy to reach 5.6mV output depends on operating conditions including water temperature, dissolved oxygen concentration, and storage conditions including storage temperature, humidity and atmospheric pressure.

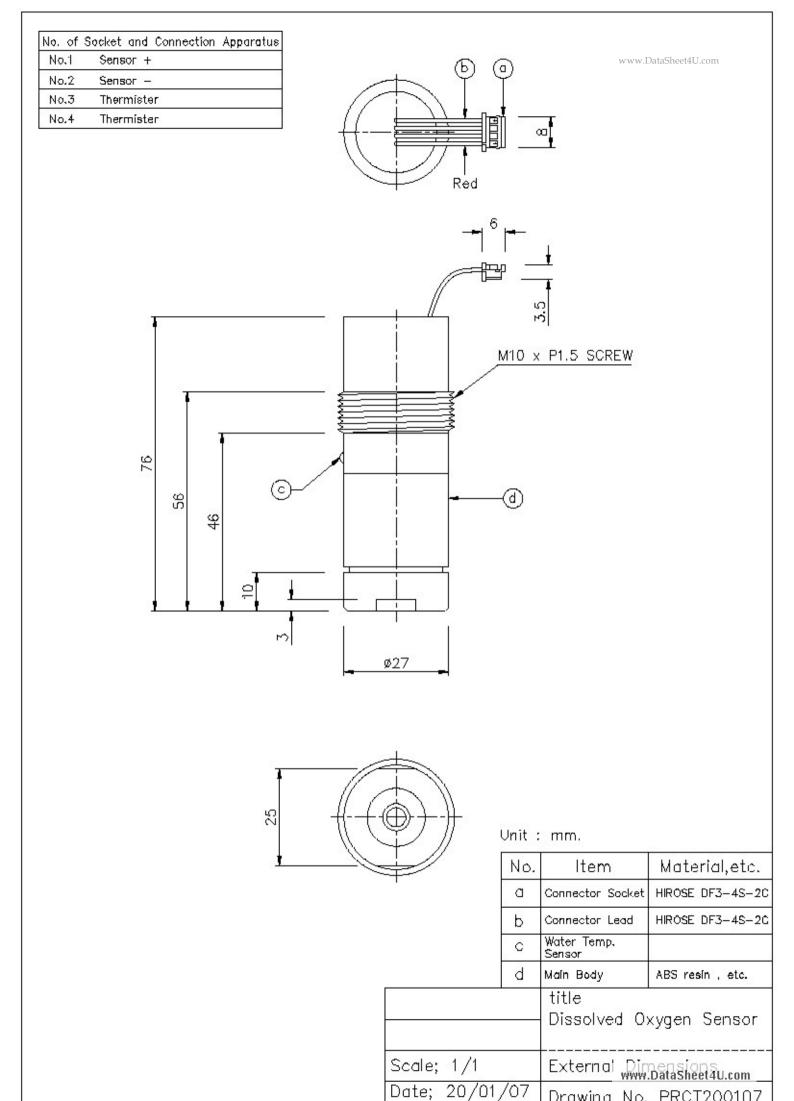
8. Limited warranty

warrants the JKS25B dissolved oxygen sensor to be free from defects in material and workmanship under normal use and service for a period of six months from the date of purchase. During the warranty period, repair or replacement of the dissolved oxygen sensor which is found to be defective in materials or workmanship under normal use and service shall be made without charge. The company's obligation under this warranty

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shall be limited to the repair or replacement of the dissolved oxygen sensor during the warranty period commencing with the date of purchase. The company shall not be obliged to repair or replace products which are found to be in need of repair because of damage, unreasonable use, modifications, alterations, or extraneous substances on the sensor surface occurring after the date of purchase.





Drawing No. PRCT200107