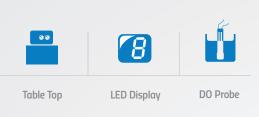




# PE 135

# Dissolved Oxygen Analyser





### **SALIENT FEATURES**

- Highly Sensitive & Stable
- Manual Temperature Compensation

### **APPLICATIONS**

### **NATURAL WATER**

To ensure the state of dynamic equilibrium of DO maintained by biochemical deplection by bacteria for the food chain and continue reoxy-generation by aeration and photosynthesis and thus the availability of right amount of DO which is vitally important for flora and fauna in water. To detect Pollution - lower level of DO (normal 7.1ppm ) will adversely affect the aquatic life.

### **SEWAGE WASTES**

To ensure biochemical break down treatment of sewage which is achieved by bacterial attack which requires DO. Non availability of DO leads to increase activity of anaerobic, sulphate reducing bacteria resulting in production of hydrogen sulphide causing serious corrosion problem.

### **MICROBIAL STUDIES**

To study effect of drugs on the brain tissues, other organs/limbs, circulation system, muscle and connective tissues, malignant tissues and surface.

### **AGRICULTURE**

To ensure sufficient aeration in soil needed for underground respiration of plant roots in addition to photosynthesis.

### **FOODS & DRUGS**

To ensure oxidation is not adversely affecting the food stuffs. To ensure D O requirements for fermentation in foods, distilleries and Bio-Synthetic preparations in Drugs & Chemicals.

### **BOILER FEED WATER**

To ensure proper level of DO to avoid oxidative corrosion of Boiler pipes in steam generation, heaters etc.



# **SPECIFICATIONS**

DISSOLVED OXYGEN		TEMPERATURE	
Range	0 to 20 ppm	Range	0 to 100 °C
Accuracy	± 0.1 ppm	Accuracy	± 0.1 °C
Repeatability	± 0.1 ppm	Repeatability	± 0.1 °C

### **PROBES**

Dissolved Oxygen	Polarographic type
Temperature	Semiconductor type

### RECORDER OUTPUT

10 mV/ppm into 10 K Ohm resistive load

### **DATA PRESENTATION**

3½ digit 7 segment LED of 12.7mm height Readout

## **POWER REQUIREMENT**

230 V  $\pm$  10% AC, 50 Hz, 1 $\phi$ , 10 VA Max.

### **PHYSICAL DIMENSIONS**

Size (WxDxH) in mm	310 x 215 x 140
Weight (in kg)	Approx. 3

### **ACCESSORIES SUPPLIED**

With Instrument

DO Probe, Gas Permeable Membranes, Thermo Probe, Sample containers, Stirrer GI 631 with Probe Stand & Holding Clamp and Stirrer Capsules.



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