

PE 138

PRODUCT SPECIFICATION SHEET

Water Quality Analyser



Table Top



LCD Display



DO Probe



Light weight, Portable and Easy to carry on field.

Microprocessor based Water Quality Analyser.

Measures directly pH, EMF, Temperature, Electrolyte Conductivity (EC), Total Dissolved Solids (TDS), Dissolve Oxygen (DO) & Salinity, Colorimetric, Abs./%T and Turbidity in Water Sample one at a time.

SALIENT FEATURES

- Unique DO measurement in Air saturated waters using Conventional Polarographic Probe.
- Programmable Calibration upto 3 points for pH with Memory Back-up.
- Useful for Potentiometric & Redox measurements.
- Automatic / Manual Temperature Compensation.
- Accurate & Highly Stable.
- Elegantly styled into a Briefcase for operational convenience in Field.
- Operates on Rechargeable Battery & Mains Supply.

APPLICATIONS

For Analysis of Water Quality in

- Drinking Water supply System, Surface & Sub surface Water for Agriculture, Aquaculture, Domestic and Industrial Process & Waste, Pollution Testing and Treatment Plans, Chemical, Pharmaceutical, Food, Beverage and Other Industries.



Water



Food & Beverages



Pharmaceutical



Soil



Chemical



Academic



Environmental & Pollution

SPECIFICATIONS

| PARAMETER | pH | EMF (mV) | Temp (°C) | Salinity | DATA PRESENTATION |
|--------------------|-------------------|-------------------|---------------|--------------------|---|
| Range | 0 to 14 | ±1999.9 | 0 to 100 | 0 to 40 ppt | |
| Readability | 0.001 | 0.1 | 0.1 | – | |
| Accuracy | ±0.001* | ±0.1 | ±0.5 | ±1% ⁽¹⁾ | PHYSICAL DIMENSIONS |
| Repeatability | ±0.001 | ±0.1 | ±0.1 | -- | |
| INPUT | | | | | |
| Sensor | CE/GE & RE | CE/GE & RE | Semiconductor | ISE (Cl) & RE | Size (WxDxH) in mm 430 x 360 x 135 ⁽²⁾ |
| Impedance@25°C | >10 ¹³ | >10 ¹³ | – | – | |
| Receptacle | BNC, Banana | BNC, Banana | Banana | BNC | Weight (in kg) Approx. 5 |
| Temp. Compensation | 0 to 100°C A/M | – | – | 0 to 50°C A/M | |

| PARAMETER | EC | TDS | DO (ppm) | COLORIMETER | TURBIDITY |
|--------------------|----------------------|---|----------------|----------------------|--------------------|
| Range | 0 to 200mS, 5 ranges | 0 to 200 ppt 5 ranges at TDS factor 0.5 | 0 to 20 | ±2 Abs., 0 to 100 %T | 0 to 100 NTU** |
| Readability | 0.05 % of range | 0.05 % of range | 0.1 | 0.001 Abs | 0.1 |
| Accuracy | ±1% of range | ±1% of range | ±0.1 | ±0.05 Abs | ±2% |
| Repeatability | ±0.5 % of range | ±0.5 % of range | ±0.1 | ±0.01 Abs | ±1% |
| INPUT | | | | | |
| Sensor | Conductivity Cell | Conductivity Cell | Polarographic | Silicon PhotoDiode | Silicon PhotoDiode |
| Source | 1 KHz Sine Wave | 1 KHz Sine Wave | DC Voltage | Tungsten Lamp | Tungsten Lamp |
| Receptacle | BNC | BNC | BNC | – | – |
| Temp. Compensation | 0 to 50°C A/M | 0 to 50°C A/M | 0 to 100°C A/M | -- | -- |

| ACCESSORIES SUPPLIED | | POWER REQUIREMENT |
|----------------------|--|--|
| With Instrument | CE, Dip type conductivity cell of 1.0 cell constant, DO Probe, Thermo Probe, Magnetic Stirrer, Mains operated Electromagnetic Stirrer GI 631, Stirring Capsules, Electrode Stand with holding clamp, Gas permeable membranes and 10 mm & 30 mm Test Tubes. | 230 V ± 10% AC, 50 Hz, 1ϕ, 9 VA Max. |
| At extra Cost | Chloride ion Selective Electrode, Reference Electrode, Glass Electrode, Dip type Conductivity cells of 0.1, 0.5 & 1.0 cell constant, Metallic Platinum, Metallic Silver and Calomel reference electrode for End point Detection in titration. | 7.2 V, 1.2 A.H. Rechargeable Ni Cd Battery |

* Conforms to IS2711-1979.

** Based on Formazine (Hydrazine Suptate and Hexamine) Standard

A : Automatic GE : Glass Electrode CE : Combined pH Electrode
M : Manual RE : Reference Electrode ISE : Ion Selective Electrode

⁽¹⁾ Depending on the Standards

⁽²⁾ Excluding 300 mm height electrode stand of 0.1 kg weight.

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