

**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	2 Line 16 Character Dot Matrix LCD Module.
Readability	0.001	0.1	0.1	–	
Accuracy	±0.001*	±0.1	±0.5	±1% <sup>(1)</sup>	
Repeatability	±0.001	±0.1	±0.1	--	
<b>INPUT</b>					
Sensor	CE/GE & RE	CE/GE & RE	Semiconductor	ISE (Cl) & RE	<b>PHYSICAL DIMENSIONS</b>
Impedance@25°C	>10 <sup>13</sup>	>10 <sup>13</sup>	–	–	
Receptacle	BNC, Banana	BNC, Banana	Banana	BNC	Size (WxDxH) in mm
Temp. Compensation	0 to 100°C A/M	–	–	0 to 50°C A/M	Weight (in kg)
					430 x 360 x 135 <sup>(2)</sup>
					Approx. 5

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%
<b>INPUT</b>					
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	
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.
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.

POWER REQUIREMENT
230 V ± 10% AC, 50 Hz, 1φ, 9 VA Max.
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

<sup>(1)</sup> Depending on the Standards

<sup>(2)</sup> Excluding 300 mm height electrode stand of 0.1 kg weight.

Specifications are subject to change due to continuous development



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