

## WATER QUALITY ANALYSER

# PE 138

PRODUCT SPECIFICATION SHEET



Portable



LCD Display



Electrodes & Test Tubes



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 D O 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% <sup>(1)</sup>	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 <sup>(2)</sup>
Impedance@25°C	>10 <sup>13</sup>	>10 <sup>13</sup>	–	–	
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 100 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 Sulfate and Hexamine) Standard

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

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

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



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