

[ENV]

Department of Environmental Science

1. Portable Multimeter (pH/EC/TDS/Salinity)	
Waterproof	Certified IP67 Waterproof
pH Range	0.00 to 14.00
Resolution/ Accuracy	0.01 pH /±0.01 pH
pH Calibration	5 points
Temperature Compensation	ATC /MTC
TDS Range	0.0 to 99.9 ppm; 100 to 999 ppm;1.00 to 10.00 ppt
Resolution/ Accuracy	0.1 ppm; 1 ppm;0.01 ppt / ±1 % Full scale
TDS Calibration	3 Manual
TDS Factor	0.40 to 1.00
Conductivity Range	0.0 to 199.9 µS/cm; 200 to 1999 mS/cm;2.00 to 20.00 mS/cm
Conductivity Calibration Points	3 Auto; 3 Manual
Normalization Temp.	25 °C
Resolution/ Accuracy	0.1mS/cm; 1 mS/cm; 0.01 mS /±1 %
Salinity Range	0.0 to 99.9 ppm ; 100 to 999 ppm ;1.00 to 10.00 ppt; 0.0 to 1.00 %
Resolution	0.1 ppm / 1 ppm – 0.01 ppt / 0.01 %
Accuracy	±1 % full scale
Conductivity Calibration	3 Auto , 3 Manual
Temp. Coefficient	0.0- 10.0% ⁰ C
Normalisation Temp.	25 ⁰ C
Auto-Ranging	Yes
Temp.Display	0-50.0°C /32.0-122.0°F
Temp. Resolution	0.1°C
Temp. Accuracy	±0.5 °C
Additional Accessories	Calibration standards and Buffers
Warranty	2 years

2. Portable ORP Tester

Waterproof	Yes
Range	-999 mV to +1000 mV
Resolution/Accuracy	1 mV /+ 2 mV
Sensor	Platinum band, double-junction
LCD Display	Custom Dual line Display
Operating Temperature	0 – 50 °C
Additional Accessories	Calibration standards
Warranty	2 years

3. Portable Dissolved Oxygen Meter

Waterproof	No
Dissolved Oxygen Range	0.00 to 19.99 mg/l or ppm
Resolution/ Accuracy	0.01 mg/l or ppm; ±1.5% of Full scale
% Saturation of Oxygen	0.0 - 199.9%
Resolution/ Accuracy	0.1 % ; ± 1.5% of Full scale
Temperature Range	0 to 50.0 ⁰ C
Resolution/ Accuracy	0.1 ⁰ C ; +0.5 ⁰ C
Barometric Pressure Correction	500 to 1499 mm Hg or 66.6 to 199.9 kPa
Resolution	1 mm Hg or 0.1 kPa
Salinity Correction	0.0 to 50.0 ppt
Resolution	0.1 ppt
Method	Automatic correction after manual input
Probe	Included, galvanic probe with 3 meter cable
Temp. Compensation	Automatic /Manual (0 to 50.0 ⁰ C)
Operating Range	0 to 50 ⁰ C
Display	Custom single 4 digit LCD
Carrying Case or Kit	Yes
Additional Accessories	Calibration standards
Warranty	2 years

4. Turbidity Meter

Measuring Parameter	Turbidity
Highlights	Light weight, IP67 waterproof meter
Principle	Nephelometric non-ratio/ ISO 7027 and DIN 27027 compliant
Range	0 to 2000 NTU
Automatic Range Selection	0.01 to 19.99 NTU; 20.0 to 99.9 NTU; 100 to 2000 NTU
Resolution	0.01 NTU (0 to 19.99 NTU); 0.1 NTU (20.0 to 99.9 NTU); 1 NTU (100 to 2000 NTU)
Accuracy	< 0.1 NTU for 0.02 NTU standard; ± 2 % of reading ± 1 digit for 0 to 500 NTU; ± 3 % of reading ± 1 digit for 501 to 2000 NTU
Repeatability	< ± 1 % of reading
Calibration	Up to 4 points
Calibration Standards	0.02 NTU, 20.0 NTU, 100 NTU, 800 NTU
Response Time	< 6 secs for full step change
Sample Volume	10 mL
Light Source	Infrared-emitting diode (850 nm wavelength)
Operating Temperature Range	0 to 50 °C
Sample Temperature Range	0 to 50 °C
Enclosure Type & Rating	ABS plastic & IP67 rated
Battery type	4 x 1.5 V 'AA' or 'AAA' alkaline batteries
Battery Life	~ 1000 readings
Certifications/ Compliance	FCC part 15 class A, TUV 3 in 1, CE, RoHS
Other	Carrying Case
Additional Accessories	Calibration standards
Warranty	2 years

5. Hotplate Magnetic Stirrer

Highlight	Digital temperature and stirring control system
Speed control	Electronic
Magnetic Stirrer speed	Up to 1500 RPM
Material	Stainless steel with ceramic coated hot plate; Chemical-resistant and scratch proof; Fire-retardant body, resistance of weak acid and alkali
Temperature range	Up to 280 °C
Temperature sensor	External temperature sensor
Temperature accuracy	± 1 °C or better
Operating voltage	220 V
Other features	Residual hotplate temperature warning; LED display
Warranty	2 years

6. Analytical Balance

Type	Precision Balance
Readability	0.001 g
Max. Capacity	More than 150 g
Display Type	Backlit LCD
Calibration	Yes; Internal or External
Leveling	Yes
Cabinet	Yes; Glass
Warranty	2 years

7. Analytical Balance

Type	Precision Balance
Readability	0.0001 g
Max. Capacity	More than 120 g
Display Type	Backlit LCD
Calibration	Yes; Internal or External
Leveling	Yes
Cabinet	Yes; Glass
Warranty	2 years