

SPECIFICATION

Note: Products should be substantially responsive to the below mentioned spec requirements.

Laboratory Equipment

1. Portable Multi-parameter meter

Technical Specification

- The built-in data memory (1000 items)
- Connecting to a computer allows measurement data to be collected
- Output to a GLP/GMP-compatible printer is possible
- Automatic calibration and calibration interval alarm function
- Usable with both 5-point calibration and USA/NIST standard solutions
- Electrical resistivity/total dissolved solids/salt content conversion functions
- Automatic range switching, automatic temperature conversion, and unit switching functions
- Interval measurement function
- Sample ID No. setting function
- Clock function and auto power-off function
- Usable with AAA alkaline batteries, Ni-MH batteries, or adapter
- IP67-compliant waterproof and dustproof structure
- Type: pH and conductivity
- Portable / Benchtop: Portable
- Minimum pH -2
- Maximum pH 16
- Minimum Conductivity 0 mS/cm
- Maximum Conductivity 0 mS/cm
- No of calibration points 5
- PC connectivity: Yes

IP67:Ensures a waterproof performance without failure when immersed 1m in water for about 30 minutes.

Accessories :

- Serial cable Horiba to connect Portable meter to a computer.
- Electrode Horiba plastic body conductivity with cell constant of 1 cm-1
- 9615S-10D Standard ToupH electrode (for general laboratory application)

2. Benchtop Water Quality Analyser

Benchtop pH/Water Quality Analyzer

Technical Specification

- Dual channel meter with 2 ports to measure pH or ORP or ions on channel one and conductivity or resistivity or salinity or TDS on channel two. Black/white LCD screen. Package includes meter, electrode stand, power converter.
- CH.1 pH/ORP/ION
- CH.2 COND/RESI/SAL/TDS
- Two channels can be displayed simultaneously
- Digital memory:Maximum 999 sets of measurement data can be recorded
- ID input.
- Simultaneous connection to a GLP/GMP compatible and PC.
- Temperature compensation?Auto/manual)
- AutoHold function
- Security(pass word?)
- Full support for various country pharmaceutical pure water guidelines
- Version up function
- Package includes Model F-74BW meter, electrode stand, power converter, compatible in Maldives
- Custom LCD display
- Electrode: 1 electrode for every parameter
- Reagents: Calibration reagents for each parameter

3. Compact Water Quality meter (pocket)

Technical Specification

- Accurate reading from only a single drop, in a few seconds. Furthermore,select measurement method depending on your situation and sample. (Drops, Immersion, Scoop, Wipe,Solid samples, Powders, Paper, textiles and films)
- pH, conductivity, ions and salinity. 7 parameters, 11 models.
- Calibrate and measure at the touch of a button – the Smiley face will tell you when the result can be read.
- fully waterproof and dustproof(IP67).
- Carry case comes standard for handy portability.

- Display Type	LCD
EAN	0639713544008
Height	20 millimeters
Item Depth	29 millimeters
Item Weight	1.76 ounces
Model Number	3200456571
Readout Accuracy	+/- 20 percent unknown_modifier
Temperature Range	5/40 degrees_celsius
UPC	639713544008
Voltage	1.5 volts
Width	164 millimeters

4. Portable Bacterial testing Kit

Intermediate Portable Water Quality Laboratory

Technical Specification

Test Protocols 37°C and 44°C temperature selections,

user selectable time profiles, automatic

resuscitation period profile

Temperature Stability $\pm 0.1^\circ\text{C}$

Temperature Control Laser-trimmed thermistor pair with automatic temperature validation.

User Interface On screen and audible prompts available in English, French, Spanish and Chinese

Data Log Last five incubation cycles performance report

Connectivity Micro-USB connection to Windows® and Android devices for data download

Size (W x L x H) 110 x 123 x 145mm

Weight 690g

Power Supply Replaceable sealed lead acid battery with mains, vehicle and external charging options

Power Consumption High thermal efficiency heating system, 5 full cycles from a fully charged battery

Microbiological Capacity incubator with consumables for 200 tests for Thermotolerant/Faecal Coliforms or Total Coliforms. Optional

Nutridisk capability for additional parameters including Faecal Streptococci, Pseudomonas aeruginosa, Salmonella and E. coli

Physico-Chemical Parameters Includes Ammonia, Free Chlorine, Total Chlorine, Nitrate, Nitrite, Turbidity, pH,

Conductivity. Additional parameters available.

Size (W x L x H) Single heavy duty field case 555 x 428 x 211mm

Weight 13 kg

5. Soil and Hydrocarbon test kit

Soil Test Kit for Total Petroleum Hydrocarbons

The system must enable the user to run 10 tests concurrently, providing the potential to run 25 tests in one hour. The kit should also be calibrated to measure quantitative amounts of specific petroleum products including: BTEX, PAH, diesel fuel, leaded and unleaded gasoline, Brent crude, and lubricating oil.

Specification

Unleaded Gasoline	80-600 mg/kg	BTEX	16-140 mg/kg
Diesel	60-400 mg/kg	Leaded Gasoline	80-520 mg/kg
Brent Crude	40-400 mg/kg	PAH (18 component mixture)	8-60 mg/kg
Lube Oil	120-1000 mg/kg	PAH (18 component mixture)	8-60 mg/kg

Must include the following:

- Starter Kit includes Photometer, Electronic Balance, Timer, PTH TubePlug/Snapper, Tip Breaking Tool, Batteries, and instructions.
- Reagents for conducting 16 tests, reagent blank ampoule and MSDS.

6. Earth Auger Fence Borer

Post Hole Digger Posthole Earth Auger Fence Borer Petrol Drill Bit

Technical Specifications.

Condition: Brand New

Engine Type: Petrol - Two Stroke Commercial

Extension Shaft: 60cm Diameter, 1m Length

EAN: Does Not Apply

UPC: Does Not Apply

Petrol/Oil Mix Ratio: 25:1

Package Item 1: 1 x Atem Power 75cc Post Hole Digger

Gearbox Oil Type: 3# Lithium Grease

Package Item 2: 3 x Augers (30cm + 20cm +10cm (Diameter) x 100cm(Length)

Full Tank Capacity: 1.2L

Package Item 3: 4 x Extension Shafts (60cm Diameter, 1m Length)

Max Engine Speed: 12,500 RPM

Package Item 4: 1 x Oil Mixer & Tool Kit

Augers Size: 30cm + 20cm +10cm (Diameter) x 100cm(Length)

Displacement:88cc

7. Permeability, Porosity and Soil Moisture Laboratory Kit

Permeability, Porosity, and Soil Moisture - Laboratory Kit

Technical Specifications.

Product Works: In this kit, we should be able to determine the permeability and porosity of soil by measuring how easily air and water move through soil, and the volume of air and water the soil will hold respectively. The Kit should be able to test the moisture content, permeability rate, and porosity of local soil samples and compared to that of sand. Kit should contain detailed instructions, background information, teacher notes and all of the materials needed for 30 surveyors working in pairs.

8. Water distiller

Low-cost 10 liters/hour water distiller Liston A 1210

Capacity 10 l/h

Water consumption 150 l/h

Distillate conductivity 2,5 μ S/cm

Overall dimensions 41x37x55 cm

Weight 17,5 kg

Overall dimensions of the package 41x46x61 cm

Package weight 19 kg

Power supply 380 V / 50 Hz, 7,5 kW three phase

Survey Equipment

1. Electrical Resistivity meter for Geophysical ground water assessment






Resistivity meter must confirm to requirements below, equivalent products are accepted

Receiving	
Voltage	$\pm 6 \text{ V}, \pm 1 \% \pm 1 \text{ LSB}$
Measurement accuracy	if $V_p \geq 10 \text{ mV}$, $\pm 5\% \pm 1 \text{ LSB}$; if $V_p < 10 \text{ mV}$, $\pm 1\% \pm 1 \text{ LSB}$; if $V_p \geq 10 \text{ mV}$, $\pm 5\% \pm 1 \text{ LSB}$; if $V_p < 10 \text{ mV}$, $\pm 1\% \pm 1 \text{ LSB}$
Input impedance	$\geq 50 \text{ M}\Omega$
Measurement precision of apparent polarizability	$\pm 1\% \pm 1 \text{ LSB}$
SP compensation range	$\pm 10 \text{ V}$
Current	$6 \text{ A}, \pm 1\% \pm 1 \text{ LSB}$
Measurement accuracy	if $I_P \geq 10 \text{ mA}$, $\pm 5\% \pm 1 \text{ LSB}$; if $I_P < 10 \text{ mA}$, $\pm 1\% \pm 1 \text{ LSB}$
Suppression	over 90Db for 50Hz industrial frequency (common mode interference or differential mode interference)
Transmitting	
Maximum transmitting power	$\pm 6600 \text{ W}$
Maximum voltage	$\pm 1100 \text{ V}$
Maximum current	$\pm 56 \text{ A}$ (when voltage $\leq 900 \text{ V}$)
Pulse width	1~60s, duty cycle is 1:1
Others	
Working temperature	$-10^\circ \text{C} \sim +50^\circ \text{C}$ (Environmental), 95 %RH
Storage temperature	$-20^\circ \text{C} \sim +50^\circ \text{C}$ (Environmental)
Power supply	internal 12V 9Ah rechargeable battery, lasts for 30 hours (or 12V external power supply)
Overall current	$\leq 55 \text{ mA}$
Weight	$\leq 4.5 \text{ Kg}$
Dimension (LxWxH)	270mmx246mmx175mm

Main Features

- Transmitting unit and receiving unit should be of all-in-one design, portable and lightweight.
- Super high-power, high anti-interference performance and precision: up to 6600w (1100v×6A) power, 48Vp-p voltage range
- Should enable for automatically achieving compensation of self-potential, drift and electrode polarization, up to $\pm 10V$.
- Receiving unit should support transient over-voltage protection, transmitting unit should support over-voltage protection, over-current protection and AB open-circuit protection.
- For general resistivity and IP survey function, 9 types of electrode arrays should be available. Geometric factor K should also be generated automatically or calculated manually.
- For multi-electrode 2D resistivity imaging, up to 18 electrode arrays should be available. It should support scanning measure according to fixed section (including AMNB, ABMN, AMBN, AMN, MNB, A-MN-B, Sp M, Sp MN, charge M, charge MN) or continuous rolling scanning measure according to variable section (including A-M, A-MN, AB-M, AB-MN, MN-B, A-MN rectangle).
- Program: the program should be able to memorize 100 groups of electrode distances, avoiding repetitive input.
- Mass data storage: should support minimum Up to 1GB capacity (extended) enabling to store 5,000,000 groups measuring data (including current, voltage, SP, Ro, Ms, metal factor, TH, R, J).
- All parameter and data should be under power-failure protection; to ensure that data will not be lost even though the system shuts down accidentally.
- should have USB port that enables it to transfer data to computer.

Components

No.	Name	Unit	Qty.	Pictures
1	WDJD-4 Multi-function Digital DC Resistivity/IP Meter	Set	1	
2	WDZJ 60channels Multiplexer	M	1	
3	Channel Self checker	Pc	1	
4	5m space Multi electrode cable (30channels/pc)	Pc	2	
5	Copper Electrode and Fork Card	Pc	65	
6	2D Software	Pc	1	