



IF IT'S WORTH BUILDING, IT'S WORTH TESTING

This wishlist was generated on 01/11/2017, and contains the following Products:

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418-150

**Paqualab System 25 for Analysis of Drinking Water to EC Standard Categories 1 & 2.**

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430-550

**Paqualab photometer**

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430-020

**Digital pH/Temp/mV Meter with electrode, carrying case and pH 4 & 7 buffers**

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513-160

**Conductivity/Temp/TDS Meter with Electrode and Carrying Case**

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450-008

**Water level indicator (dipmeter) with audio and light indicator 30 m**

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520-265

**Miniature Current Flow Meter Wading Set for Velocities 0.03 to 5 M/S.**

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520-360

**Parshall Flume - Small.**

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## Paqualab System 25 for Analysis of Drinking Water to EC Standard Categories 1 & 2.

Code: **418-150**

Product Group: **Paqualab Standard Systems**

Portable drinking water quality testing system.

Microbiological - Coliform & E.Coli.

Physical - temperature, conductivity & turbidity.

Chemical - pH, Cl, NH<sub>3</sub>, NO<sub>2</sub> & NO<sub>3</sub> plus over 40 chemical tests available.

AC/DC and rechargeable battery powered incubator.  
On-site testing for fast, accurate results.

Long-term monitoring and emergency testing of drinking water to EC and WHO guidelines.

Comprising of the ELE Paqualab incubator 25, pH/temperature/mV meter, conductivity/temperature meter, turbidity meter, 0 - 1000 FTU, ELE Paqualab photometer, and consumables for 200 tests on faecal or total coliforms, chlorine, ammonia, nitrates and nitrites.

The Paqualab is a portable testing system for the key drinking water quality parameters. The Paqualab allows the laboratory to be carried to water so that accurate results are obtained sooner even in remote areas. Laboratory standard results can be obtained by operators with the minimum of training. The equipment provided in each Paqualab has been specifically designed for field use. Aluminium replaces glass for many components for improved strength and lighter weight. The incubators have 2 pre-set temperatures that are usually set to 37°C and 44°C.

The internal battery provides sufficient power for a full incubation cycle.

Over 1000 Paqualabs are in use throughout the world for monitoring drinking water in remote areas, emergency situations, research and education. The Paqualab is a completely modular system. Standard kits are available as shown below. All items are also available individually to enable the user to build a system to meet their specific requirements. In addition, Paqualab Incubator systems contain all the hardware required for microbiological tests. Paqualab standard systems are based on the Incubator systems and also include tests for other parameters as shown below.

## Further Information

Overall dimensions 335 x 230 x 275 mm

## Specification

Standard system

Item supplied	50 (418-160)	25 (418-150)
(420-035) Universal & Incubator 50	Yes	-
(420-030) Universal Incubator 25	-	Yes
(430-020) pH/Temp/mV meter	Yes	Yes
(513-160) Conductivity/TDS/temp meter	Yes	Yes
(430-260) Turbidity meter	Yes	Yes
(430-550) Photometer	Yes	Yes
(433-115/10) Chlorine reagent system, free combined and total pack of 250	Yes	Yes
(433-102/10) Ammonia reagent system, pack of 250 tests	Yes	Yes
(433-166/10) Nitrate reagent system, pack of 200 tests	Yes	Yes
(433-168/10) Nitrite reagent system, 4 packs of 50 tests	Yes	Yes
(422-010) Coliform starter pack. Sufficient for 200 tests	Yes	Yes

# Product Sheet

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Incubator system

Item supplied	50 (418-160)	25 (418-150)
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Large rigid carrying case	Yes	-
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Standard rigid carrying case	-	Yes
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Universal incubator	Yes	Yes
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Standard incubator	Yes	-
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Incubator linking lead	Yes	-
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Filtration unit	Yes	Yes
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Mains lead	Yes	Yes
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Battery lead	Yes	Yes
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Cigar lighter plug	Yes	Yes
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Aluminium petri dishes	Yes	Yes
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Plastic autoclavable bottles (x4)	Yes	Yes
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Dropping pipettes (x2)	Yes	Yes
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Forceps	Yes	Yes
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Magnifying glass	Yes	Yes
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Thermometer (spirit)	Yes	Yes
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Trim tool	Yes	Yes
Grease	Yes	Yes
Instruction manual in binder	Yes	Yes

## Spares/Consumables



### Aluminium Petri Dishes Pack of 25.

Code: [422-560](#)



### Coliform Starter Pack. Sufficient for 200 Tests

Code: [422-010](#)



### Filtration Unit AI Construction Complete with Sampling Cup.

Code: [420-450](#)



### Membrane Lauryl Sulphate Medium 38.1 Gram Pack. Sufficient for 200 Tests.

Code: [422-110](#)



## Pad Dispenser.

Code: [422-515](#)



## Sterile Filter Membranes and Absorbent Pads. Pack of 200.

Code: [422-508](#)

## Alternatives



## Paqualab System 50 for Analysis of Drinking Water to EC Standard Categories 1 & 2.

Code: [418-160](#)





## Paqualab photometer

Code: 430-550

Product Group: Paqualab Test Meters

Lightweight and portable for laboratory or field use.

Accurate results using tablet reagents which have a long shelf-life.

Over 40 different water tests available for use with the photometer.

Ideal for use with ELE's Paqualab systems.

This Paqualab photometer is simple to use, robust in construction and designed for on-site analysis. The photometer provides dependable results to enable decisions on water quality to be made instantly and with confidence.

Simple operation with automatic set-up for each test. Designed for reagent systems in tablet form.

Rapid access to frequently used tests from a choice of over 100 parameters/methods.

With dilution tube, 8 glass cuvettes, operating instructions and hard carrying case.

## Further Information

Test reagent tablets are not supplied. Available separately under Photometer Reagents.

## Specification

Instrument type	Dual light source photometer offering direct-reading of pre-programmed test calibrations, absorbance and transmittance
Wavelengths	450 nm, 500 nm, 550 nm, 570 nm, 600 nm, 650 nm
Accuracy	± 1.0% T
Display	320 x 240 pixel LCD with backlight and contrast adjustment
User interface	On-screen prompts available in English, French, Spanish, German, Italian, Turkish and Mandarin (Chinese)
Dimensions (w x l x h)	150 x 250 x 70 mm
Weight	975g
IP rating	IP67



# Product Sheet

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Power supply

3x 1.5V AA batteries (typically  
40 hours)

Test cuvettes

Automatic centring for  
cylindrical cuvettes from 13 to  
20 mm OD



## Digital pH/Temp/mV Meter with electrode, carrying case and pH 4 & 7 buffers

Code: 430-020

Product Group: Paqualab Test Meters

Robust waterproof case offering IP66/67 protection

Manual/automatic temperature compensation

Easy to use re-calibration function

The 430-020 pH meter is a three-in-one instrument that features a large easy to read, LCD display that indicates pH over the range of -2 to 16 pH with a resolution of 0.01 pH, mV over the range of -1000 to 1000 mV and temperature over the range of -39.9 to 149.9°C with a resolution of 0.1°C. The LCD display features both low battery indication and a user selectable backlight.

The pH readings are either manually or automatically temperature compensated over the range of 0 to 100°C. To automatically compensate, it is necessary to utilise a thermistor temperature probe. Each unit incorporates an auto-power off facility that automatically turns the instrument off after ten minutes, maximising battery life.

The 430-020 has an integrated rubber seal to ensure complete water resistance and helps to reduce the possibility of damage in harsh environments. At the touch of a button, the instrument will automatically re-calibrate (two-point autocal) itself when used in conjunction with pH buffer solutions.

Each unit incorporates an easy to use BNC connector and Lumberg screw-locking type connector.

## Further Information

### Specification

Range	Resolution	Accuracy
-2 to 16 pH	0.01 pH	± 0.02 pH
± 1000 mV	1 mV	± 1 mV
-39.9 to 149.9 °C	0.1 °C	± 0.4 °C (-10 to 70 °C)
Battery	3 x 1.5 volt AAA	
Battery Life	Maximum 5 years (2500 hours)	
Sensor Type	Combination electrode/ thermistor	
Display	12 mm LCD	
Dimensions	32 x 71 x 141mm	

Weight

230 grams

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## Spares/Consumables



**Spare pH electrode for use with 430-020 meter**

Code: [430-020/10](#)



## Conductivity/Temp/TDS Meter with Electrode and Carrying Case

Code: **513-160**

Product Group: **Paqualab Test Meters**

Hand-held Conductivity Meter with a conductivity range 0.0 $\mu$ S/cm to 200.0mS/cm, TDS range 0.01mg/l to 200.0mg/l, with electrode clip, probe and standard sachets.

Compact design with built-in, hingeing stand for bench use, IP67 protection level housing, single point calibration with automatic recognition of 3 pre-defined standards, 200 measurement memory, large segmented LCD readout, automatic linear temperature compensation from 0.00% to 10.00%/°C, automatic or manual end-point recording with audiovisual signals.

Supplied as a standard kit with electrode clip, wrist strap, instructions, batteries, probe, sealing caps 2 x 1413 $\mu$ S/cm and 2 x 12.88mS/cm standard sachets.

## Specification

Model	513-160	
Ranges	Conductivity	0.0 $\mu$ S/cm to 200.0mS/cm
	TDS	0.01mg/litre to 200.0mg/litre
	Temperature	0.0 to 100.0°C
Calibration	1 point, with 3 pre-defined standards	
Temperature compensation	Automatic	Adjustable, 0.0% per °C to 10.0% per °C
Reference temperature	°C	20 or 25 selectable
Input	LTW 7pin	
Power	4 x 1.5V AA alkaline batteries	
Overall W x D x H	mm	77 x 33 x 188
Weight	G	260



## Water level indicator (dipmeter) with audio and light indicator 30 m

Code: 450-008

Product Group: [Water level indicators](#)

Portable, lightweight, simple, reliable and easy to operate.

Clear interval markings.

Audible and visual water level alert signals.

Dipmeters are portable instruments for measuring the water level in wells, standpipes and boreholes. It is simple to use, portable and can be used at many locations. The tape design prevents it from sticking to wet surfaces, such as the lining of a borehole, ensuring accurate measurements.

The dipmeters have a stainless steel probe fitted to a flexible graduated cable which is wound on to a hand reel containing a transistorised switched circuit, audio (buzzer) and visual (LED light) indicators and a battery.

Sensitivity adjustment for variations in water conductivity, non-stretch polyethylene coated steel tape.

The sensor probe incorporates an insulating gap which acts as a switch, the circuit being completed when contact is made with the water. The cable consists of non-stretch contoured tape with standard steel conductors, graduated at one millimetre intervals. The probe is lowered down a borehole to the end of the tape. When it makes contact with water a buzzer sounds and an LED light comes on, both located on the reel. A reading can then be taken from the tape at the top of the borehole to indicate the water depth. A sensitivity control is accessible inside the hand reel to enable adjustment to suit the water conductivity.

The Probe is shrouded and made of stainless steel, 230mm length and 15mm diameter.

Available lengths:

450-008: 30m  
450-010: 50m  
450-011: 100m  
450-012: 150m  
450-013: 200m  
450-015: 300m  
450-017: 500m

## Further Information

Graduated Every 10 mm.

## Specification

Tape length	30m
Weight	1.7 kg
Indicator	Audio and visual
Tape graduations	m/cm/mm

## Alternatives



### Water level indicator (dipmeter) with audio and light indicator 100 m

Code: [450-011](#)



### Water level indicator (dipmeter) with audio and light indicator 150 m

Code: [450-012](#)



### Water level indicator (dipmeter) with audio and light indicator 200 m

Code: [450-013](#)



## Water level indicator (dipmeter) with audio and light indicator 300 m

Code: [450-015](#)

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## Water level indicator (dipmeter) with audio and light indicator 50 m

Code: [450-010](#)

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## Water level indicator (dipmeter) with audio and light indicator 500 m

Code: [450-017](#)





## Miniature Current Flow Meter Wading Set for Velocities 0.03 to 5 M/S.

Code: [520-265](#)

Product Group: [Flow meters](#)

For velocities 0.04 to 5.0 metres/second. Consisting of current meter, revolution counter, wading rods, base and knob, 3 metres wading cable.

## Further Information

All packed into carrying case 850 x 180 x 220 mm.

## Accessories



## Pc Download Cable for Current Flow Meter.

Code: [520-261](#)



## Parshall Flume - Small.

Code: [520-360](#)

Product Group: [Gauging weirs and flumes](#)

Having a throat width of 25 mm for flows 0.3 to 5 litres/second.

## Further Information

Overall dimensions 710 x 360 x 270 mm.