

THE WATER CATALOGUE



**SPECIALIST MANUFACTURERS OF ENVIRONMENTAL
ANALYSIS AND MONITORING EQUIPMENT**



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INTRODUCTION

Our mission is to develop, manufacture and supply unique and innovative customer solutions for environmental monitoring and analysis.

Whether deep in the bush of Africa, or in the midst of the urban jungle of global cities, clean water is the most fundamental of human needs. Poverty, war and natural disasters have shown us that even in the 21st Century; contaminated water can affect any one of us.

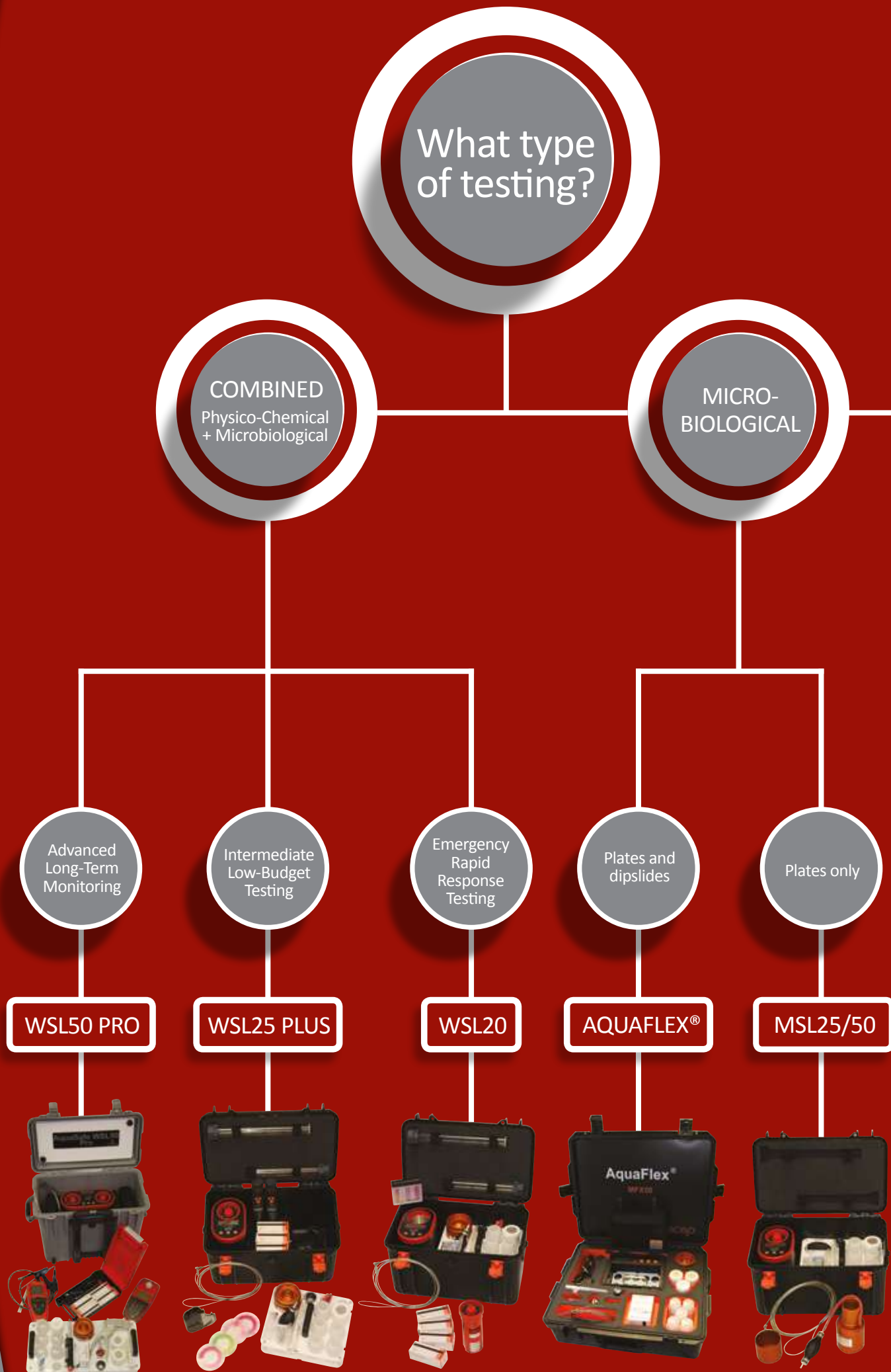
Governments, charities and NGOs see water quality monitoring as a vital part of both routine tests and disaster relief, including microbiological, physical and chemical parameters.

The Aquasafe® and Hydro products, with our extended equipment range, offer solutions for basic, intermediate and advanced water testing laboratories, with full training and installation where required.

In addition to portable and fixed sites, Wagtech Projects Ltd can offer mobile laboratory solutions to fit your exact requirements.

“Access to safe water is a fundamental human need and therefore a basic human right”

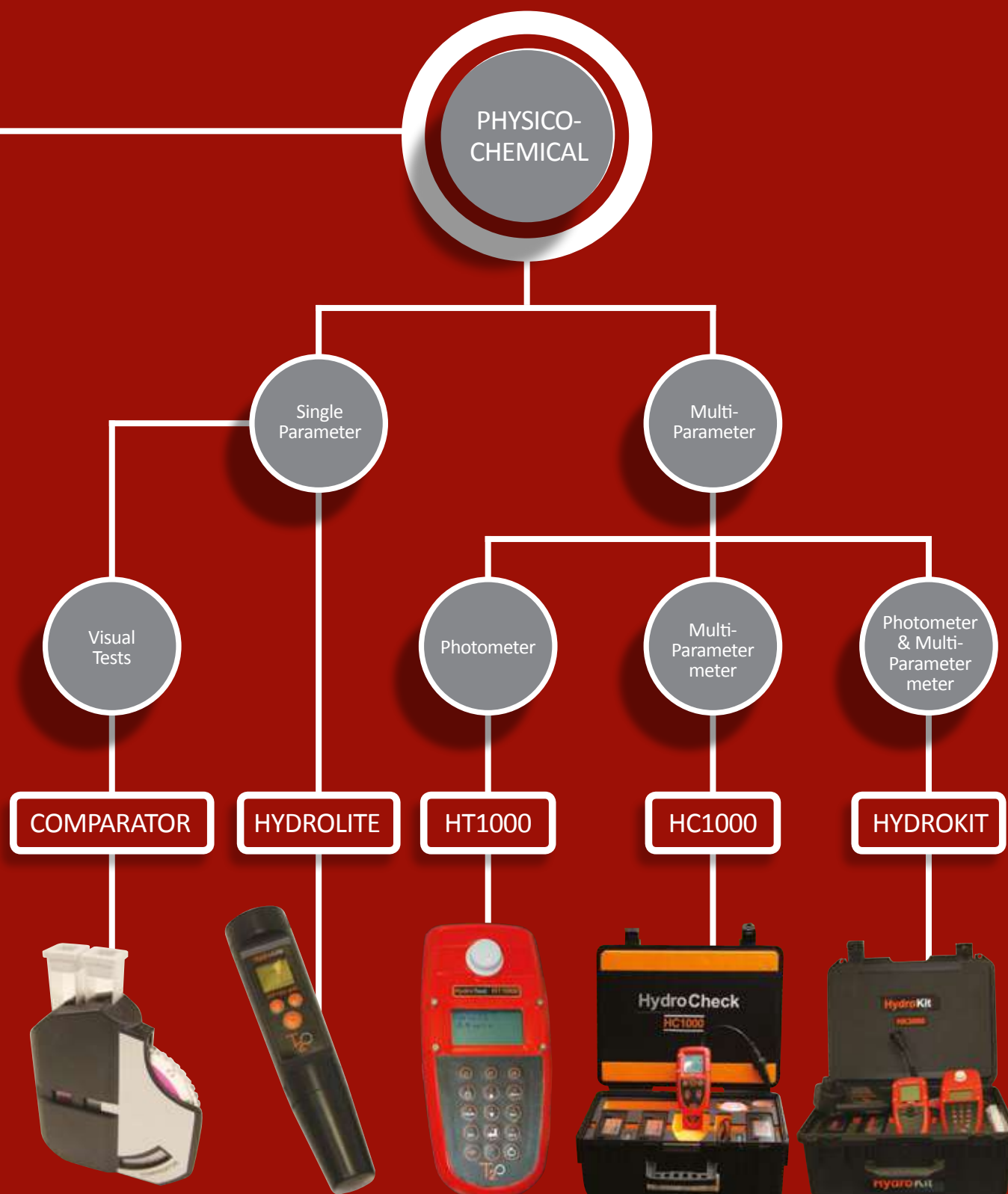
Kofi Annan – Former Secretary General, United Nations





How to choose your portable testing kit

This simple to use guide will help you find the perfect kit for your exact requirements. Please contact us should you need any help with your specific needs.





Kit overview

COMBINED



COMBINED
Physico-Chemical
+ Microbiological

For the user that needs to test the microbiological, physical and chemical status of a water sample, these easy to use AquaSafe® kits are provided in a single hard wearing case, giving excellent and accurate results with minimal training.

- ⊙ Kits include all necessary accessories and consumables to get started
- ⊙ Digital and non-digital options available to suit all requirements
- ⊙ Designed for complete portability OR use in a field laboratory
- ⊙ Functional during transit for maximum efficiency
- ⊙ See pages 8 to 19

MICROBIOLOGICAL



MICRO-
BIOLOGICAL

Where only microbiological conditions are important, or of interest, the AquaSafe® and AquaFlex® products offer testing of a broad range of micro-organisms. These portable solutions use membrane, Nutridisk or dipslide testing technology to suit all applications and user choices and are completely portable to give greatest flexibility.

- ⊙ Membrane filtration or dipslide options
- ⊙ Test for multiple organisms through selective media
- ⊙ Completely portable
- ⊙ Docking station technology gives maximum flexibility
- ⊙ See pages 20 to 23



PHYSICO-CHEMICAL

PHYSICO-CHEMICAL



When the microbiological status of the water isn't in question, but a flexible physico-chemical solution is needed, these kits provide a wide range of capabilities to suit any testing regimen. Ranging from simple visual tests to complex digital solutions, these carefully considered kits are perfect, and can be designed to fit any requirement.

- Wide chemical testing capabilities
- Visual and digital solutions
- Completely portable
- See pages 24 to 45

REAGENTS AND CONSUMABLES

Reagents/ Consumables



While all kits are provided with the necessary consumables to work "out of the box", additional consumables are available to top up, or expand your kit as required.

We offer a complete technical support and advice service, using our global office network, to help you get the most out of your kit, with the correct consumable choices.

These include:

- Calibration solutions
- Microbiological media
- Buffers
- Accessories and Spares
- Tablet reagents
- See pages 46 to 49



Advanced portable water testing laboratory

AQUASAFE® WSL50 PRO

An advanced portable laboratory offering Physico-chemical AND microbiological testing in a single rugged floating case.

The Aquasafe® WSL50 PRO is the pinnacle of portable water testing kits, giving a suite of laboratory quality results in a single, easy to transport, hard wearing, waterproof, buoyant case. The high capacity dual microbiological incubator that docks simply into the case to allow easy use both in the field or in the laboratory.

- ⦿ Fully waterproof (IP68) single case with lockable lid. All items incorporated into a single case for ease of portability
- ⦿ Case floats in the event of falling in water
- ⦿ Lightweight dual incubator with independent control of both chambers through a single soft key panel. Dual chambers allow for the simultaneous identification of both total and faecal (thermotolerant) coliforms and can easily be used for other organisms
- ⦿ The number of petri-dishes used can now be varied without compromising performance through use of the PetriLok® system. This maintains stability of smaller numbers of dishes during transport
- ⦿ A high performance rechargeable battery pack is built in to the case, behind a hinged panel, allowing easy access when required
- ⦿ Inbuilt docking station for the incubator, allowing easy removal of samples when required
- ⦿ A digital and accurate photometer is included along with a multi-parameter meter for digital tests such as pH and conductivity
- ⦿ Rapid yet sensitive total arsenic detection system
- ⦿ Consumables and accessories protected by a specifically engineered rack system mounted in the case
- ⦿ Easily portable using either the carry handle or the retractable handle and wheels



| DESCRIPTION | PRODUCT CODE |
|-------------|--------------|
| WSL50 Pro | WT10-100 |



The most advanced complete portable water testing laboratory from Wagtech Projects Ltd can be optimised for your specific application. Ask our technical team for more information on additional reagents and equipment to make your kit the perfect fit.

The kit ensures that all consumables, reagents and accessories are kept in good condition, using the specially designed storage tray, which holds everything in place for transport and use.

TECHNICAL SPECIFICATIONS

| | |
|-------------------------------------|--|
| Dimensions mm | ⊙ 500 x 305 x 457 |
| Weight Kg | ⊙ 20 |
| Approvals | ⊙ IP68, CE-Conformity |
| Test Programs | ⊙ 37°C, 44°C, user defined (between 20°C and 50°C) ⊙ Adjustable 24 hour countdown timer |
| Timer | ⊙ Adjustable ⊙ 24 Hour with build in “power loss” pause feature |
| Number of Incubation Chambers | ⊙ 2 |
| Max PetriDish Capacity | ⊙ 50 petri-dishes |
| Temperature Range (incubator) | ⊙ 20°C to 50°C |
| Temperature Resolution | ⊙ 0.1°C |
| Temperature Stability | ⊙ +/- 0.1°C |
| Features of the case and components | ⊙ Wheeled and fully waterproof with retractable handle ⊙ In case docking station technology ⊙ Specifically designed and engineered storage tray as standard for consumables and accessories ⊙ PetriLok® technology on every petri-dish stack ⊙ Integrated pH/Conductivity meter and combined Photometer/Turbidity meter ⊙ Case floats in the event of an immersion incident |
| Storage Temperature | ⊙ 0°C to 70°C |
| User Interface | ⊙ 16 x 2 LCD display ⊙ 3 tactile soft keys ⊙ Audible alert |
| Power Supply | ⊙ 12-24 V DC ⊙ Removable sealed lead acid power pack ⊙ Via integral case incubator docking station |
| Power Consumption | ⊙ 37°C cycle at 20°C ambient ⊙ Max Power 16.1 W ⊙ Average Power 6 W ⊙ Heating Rate 0.7°C/min |



PORTABLE WATER TESTING KIT – COMBINED

WAGTECH PROJECTS





COMPONENTS, ACCESSORIES AND CONSUMABLES INCLUDED IN YOUR KIT

| | |
|--------------------------------|---|
| Microbiological Testing | <ul style="list-style-type: none">⊙ Membrane filtration system for precise cfu counts⊙ 5 m lanyard for sample collection⊙ Hand powered vacuum pump⊙ Dual chamber incubator with independently controlled chambers with complete programmability of temperatures between 20°C and 50°C.⊙ Audible alerts⊙ LCD display of time, temperature and other variables⊙ Tactile soft buttons⊙ Easy user calibration⊙ 50 reusable petri-dish capacity⊙ In-case incubator docking station technology |
| Photometric Testing | <ul style="list-style-type: none">⊙ IP68 rated photometer (HydroTest HT1000) for over 40 different chemical tests⊙ Dilution kit for high concentration samples |
| Electrochemical Testing | <ul style="list-style-type: none">⊙ IP68 rated multiparameter meter (HydroCheck HC1000) with pH/EC and temperature probes supplied as standard⊙ Calibration solutions supplied as standard⊙ Dissolved Oxygen (DO) and ISE measurement available |
| Consumables | <p>Kit comes complete with:</p> <ul style="list-style-type: none">⊙ 6 x Sterile membrane lauryl sulphate broth (MLSB) sachets for 300 coliform tests⊙ 300 high sterile quality pads and membranes⊙ Field dechlorination kit⊙ Methanol (subject to shipping regulations) as standard⊙ Reagents for 300 tests of each of<ul style="list-style-type: none">⊙ Ammonia⊙ Total arsenic⊙ Free chlorine⊙ Total chlorine⊙ Nitrate⊙ Nitrite⊙ Other chemical tests available – see page 49 for details |

For a full range of consumables - see pages 46 to 49



Intermediate portable water testing kit

AQUASAFE® WSL25 PLUS

A fully equipped water safety kit offering both physico-chemical and microbiological testing capability in a single, easy to carry, rugged case.

The lightweight Aquasafe® WSL25 PLUS is a complete but simple solution, combining digital and visual testing together for fast and accurate results.

- ⦿ A small, single case including all components of the kit, with both handle and shoulder strap, capable of floating in the event of falling in water
- ⦿ A single incubator with complete control of the well insulated chamber through a soft key panel and digital display function
- ⦿ Adjustable temperature setting allows for the incubation of thermotolerant coliforms or many other organisms, with the use of selective media
- ⦿ The number of petri-dishes used can now be varied, without compromising performance, through use of the PetriLok® system, which maintains stability of smaller numbers of dishes during transport
- ⦿ A high performance rechargeable battery pack is built in to the case behind a hinged panel allowing easy access when required. This pack includes an inbuilt docking station for the incubator, allowing easy removal of samples when required
- ⦿ Digital pH and conductivity through 2 separate units ensures continuity of testing in the unlikely event of one unit failing
- ⦿ Visual testing capability of turbidity (using a 2 part Jackson turbidity tube with rugged threaded connector), total arsenic via a visual tube method and chlorine, nitrate, nitrite and ammonia (through use of a wheel based comparator block) is provided as standard
- ⦿ Additional chemical visual tests are available with the addition of a wheel and the appropriate reagents (see page 48 for full details)



| DESCRIPTION | PRODUCT CODE |
|-------------|--------------|
| WSL25 Plus | WT10-200 |



A small, yet extremely rugged, case allows this water safety kit to be carried anywhere with no concerns about user fatigue or space. Once opened, the kit allows simple, accurate and efficient testing of all the key water safety parameters including pH, conductivity, chlorine, ammonia, nitrate and nitrite, total arsenic, temperature, turbidity and faecal (thermotolerant) coliforms.

TECHNICAL SPECIFICATIONS

| | |
|-------------------------------------|---|
| Dimensions mm | ⦿ 430 x 290 x 280 |
| Weight Kg | ⦿ 15 |
| Approvals | ⦿ IP68, CE-Conformity |
| Test Programs | ⦿ 37°C, 44°C, user defined (between 20°C and 50°C) ⦿ Adjustable 24 hour countdown timer |
| Timer | ⦿ Adjustable ⦿ 24 Hour with built in “power loss” pause feature |
| Number of Incubation Chambers | ⦿ 1 |
| Max PetriDish Capacity | ⦿ 25 petri-dishes |
| Features of the case and components | ⦿ Fully waterproof and buoyant with both handle and shoulder strap ⦿ Case floats, even when full ⦿ In-Case docking station technology ⦿ Specifically designed and engineered storage tray as standard for consumables and accessories ⦿ PetriLok® technology on every petri-dish stack ⦿ Integrated digital pocket meters for both pH and conductivity |
| Temperature Range (incubator) | ⦿ 20°C to 50°C |
| Temperature Resolution | ⦿ 0.1°C |
| Temperature Stability | ⦿ +/- 0.1°C |
| Optimum Operation Temperature | ⦿ 40°C |
| Storage Temperature | ⦿ 0°C to 70°C |
| User Interface | ⦿ 16 x 2 LCD display ⦿ 3 tactile soft keys ⦿ Audible alert |
| Power Supply | ⦿ 12-24 V DC ⦿ Removable sealed lead acid power pack via integral case incubator docking station |
| Power Consumption | ⦿ 37°C cycle at 20°C ambient ⦿ Max Power 16.1 W ⦿ Average Power 6 W ⦿ Heating Rate 0.7°C/min |



PORTABLE WATER TESTING KIT – COMBINED

WAGTECH PROJECTS 4





COMPONENTS, ACCESSORIES AND CONSUMABLES INCLUDED IN YOUR KIT

| | |
|--------------------------------|--|
| Microbiological Testing | <ul style="list-style-type: none">⊙ Membrane filtration system for precise cfu counts⊙ 5 m lanyard for sample collection⊙ Hand powered vacuum pump⊙ Single chamber incubator with electronically controlled chambers⊙ Complete programmability of temperatures between 20°C and 50°C.⊙ Audible alerts⊙ LCD display of time, temperature and other variables⊙ Tactile soft buttons⊙ Easy user calibration⊙ 25 reusable petri-dish capacity⊙ In-case incubator docking station technology |
| Visual Testing | <ul style="list-style-type: none">⊙ Rugged 2 part Jackson turbidity tube with threaded locking mechanism to ensure stability⊙ Comparator block and wheels |
| Electrochemical Testing | <ul style="list-style-type: none">⊙ IP67 rated pH pocket meter and IP67 rated conductivity pocket meter⊙ Calibration solutions supplied as standard⊙ Dissolved oxygen (DO) pocket meter available as an additional test |
| Consumables | <p>Kit comes complete with:</p> <ul style="list-style-type: none">⊙ 6 x Sterile membrane lauryl sulphate broth (MLSB) sachets for 300 coliform tests⊙ 300 high quality sterile pads and membranes⊙ Field dechlorination kit⊙ Methanol (subject to shipping regulations) as standard⊙ Reagents for 300 tests of each of<ul style="list-style-type: none">⊙ Ammonia⊙ Total arsenic⊙ Free chlorine⊙ Total chlorine⊙ Nitrate⊙ Nitrite⊙ Other chemical tests available. See page 48 for a range of comparator wheels and reagents |

For a full range of consumables - see pages 46 to 49



Emergency portable water testing kit

AQUASAFE® WSL20

Our simple emergency response kit is able to test for the basic water testing parameters set out by the World Health Organisation (WHO), namely pH, free chlorine, total chlorine, turbidity, temperature and faecal (thermotolerant) coliforms.

Its small, single floating case format allows easy carriage and fast deployment and can withstand the challenges of fieldwork.

- Single incubator with easy to use soft key digital controls
- Adjustable temperature setting allows for the incubation of faecal (thermotolerant) coliforms
- The number of petri-dishes used can now be varied, up to a maximum of 20, without compromising performance through use of the PetriLok® system. This maintains stability of smaller numbers of dishes during transport
- A high performance rechargeable battery pack is built in to the case behind a hinged panel allowing easy access when required. This pack includes an inbuilt docking station for the incubator, allowing easy removal of samples when required
- Chlorine, pH and turbidity all measured using familiar and reliable visual methods
- 2 Part Jackson turbidity tube with augmented threaded secure locking mechanism allowing one-handed operation

You can expand your Aquasafe® WSL20 to include conductivity testing by adding our digital pocket tester. Dissolved oxygen and digital pH also available (see page 26 for details).



| DESCRIPTION | PRODUCT CODE |
|-------------|--------------|
| WSL20 | WT10-300 |



The internal space of this Aquasafe® WSL20 emergency response kit is perfectly engineered to ensure that each component has a set location. This makes deployment and pack up quick, and simple, saving time for important testing activity. All components are kept clean, undamaged and easily accessible using the specially designed in case tray.

TECHNICAL SPECIFICATIONS

| | |
|-------------------------------------|--|
| Dimensions mm | ⊙ 430 x 290 x 280 |
| Weight Kg | ⊙ 15 |
| Approvals | ⊙ IP68, CE-Conformity |
| Test Programs | ⊙ 37°C, 44°C, user defined (between 20°C and 50°C) ⊙ Adjustable 24 hour countdown timer |
| Timer | ⊙ Adjustable ⊙ 24 Hour with built in “power loss” pause feature |
| Number of Incubation Chambers | ⊙ 1 |
| Max PetriDish Capacity | ⊙ 20 |
| Temperature Range (incubator) | ⊙ 20°C to 50°C |
| Temperature Resolution | ⊙ 0.1°C |
| Temperature Stability | ⊙ +/- 0.1°C |
| Features of the case and components | <ul style="list-style-type: none"> ⊙ Fully waterproof and buoyant with both handle and shoulder strap ⊙ Case floats, even when full ⊙ In-Case docking station technology ⊙ Specifically designed and engineered storage tray as standard for consumables and accessories ⊙ PetriLok® technology on every petri-dish stack ⊙ Simple robust visual testing technology for pH, chlorine (free and total) and turbidity ⊙ 2 part Jackson turbidity tube with threaded connection system |
| Storage Temperature | ⊙ 0°C to 70°C |
| User Interface | <ul style="list-style-type: none"> ⊙ 16 x 2 LCD display ⊙ 3 tactile soft keys ⊙ Audible alert |
| Power Supply | <ul style="list-style-type: none"> ⊙ 12-24 V DC ⊙ Removable sealed lead acid power pack <ul style="list-style-type: none"> ⊙ Via integral case incubator docking station |
| Power Consumption | <ul style="list-style-type: none"> ⊙ 37°C cycle at 20°C ambient <ul style="list-style-type: none"> ⊙ Max Power 16.1 W ⊙ Average Power 6 W ⊙ Heating Rate 0.7°C/min |



PORTABLE WATER TESTING KIT – COMBINED

WAGTECH PROJECTS





COMPONENTS, ACCESSORIES AND CONSUMABLES INCLUDED IN YOUR KIT

| | |
|--------------------------------|---|
| Microbiological Testing | <ul style="list-style-type: none">⊙ Membrane filtration system for precise cfu counts⊙ 5 m lanyard for sample collection⊙ Hand powered vacuum pump⊙ Single chamber incubator with electronically controlled chambers⊙ Complete programmability of temperatures between 20°C and 50°C.⊙ Audible alerts⊙ LCD display of time, temperature and other variables⊙ Tactile soft buttons⊙ Easy user calibration⊙ 20 reusable petri-dish capacity⊙ In-case incubator docking station technology |
| Visual Testing | <ul style="list-style-type: none">⊙ Rugged 2 part turbidity Jackson tube with threaded locking mechanism to ensure stability and allowing one-handed operation⊙ Block tester for both chlorine and pH |
| Consumables | <p>Kit comes complete with:</p> <ul style="list-style-type: none">⊙ 6 x Sterile membrane lauryl sulphate broth (MLSB) sachets for 300 coliform tests⊙ 300 high quality sterile pads and membranes⊙ Field dechlorination kit⊙ Methanol (subject to shipping regulations) as standard⊙ Reagents for 300 tests of each of<ul style="list-style-type: none">⊙ Free chlorine⊙ Total chlorine⊙ pH (Phenol Red)⊙ Other chemical tests available via comparator wheel technology, see page 48 for details |

For a full range of consumables - see pages 46 to 49



Flexible portable microbiology laboratory

AQUAFLEX®

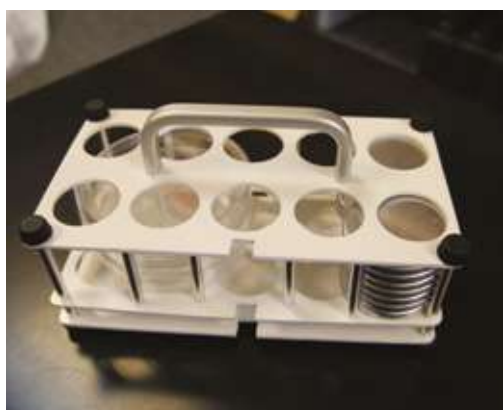
This flexible microbiological testing kit uses both petri dishes and dip slides so a wider range of organisms can be detected. Small enough to use in the field and accurate enough to work in a laboratory environment, this system gives ease of use to any testing program.

The integrated Flexi-Frame can be used to incubate dishes from a membrane filtration test, agar plates or even dip slides, all at the same time.

- Small but spacious incubator chamber for multiple samples
- Simple programmability using soft keys to ensure maximum control of your test
- Flexi-Frame allows simultaneous testing of dishes and slides giving a wider biological reach in a shorter timescale
- Rugged Aquaflex® Transit Power Pack (TPP) available as an option giving portability into any environment, independent from the laboratory
- Fan assisted heating elements ensure an even temperature throughout the chamber
- Complete with vacuum filtration unit, 50 aluminium petri-dishes and sufficient consumables for 300 coliform tests using the membrane filtration method
- A single rugged carry case provided as standard (Excludes TPP)



| DESCRIPTION | PRODUCT CODE |
|--------------------|--------------|
| Aquaflex® | WT10-400 |
| Transit Power Pack | WT10-410 |





Detectable organisms via dipslide include (pack of 10 tests):

| DESCRIPTION | PART NUMBER | DESCRIPTION | PART NUMBER |
|----------------------|-------------|-----------------------------------|-------------|
| Total Coliforms | WT10-800 | Faecal (Thermotolerant) Coliforms | WT10-802 |
| Total Plate Count | WT10-804 | Escherichia coli | WT10-806 |
| Pseudomonas CFC | WT10-808 | Listeria | WT10-810 |
| Enterobacteriaceae | WT10-812 | Fungus | WT10-814 |
| Lactobacilli | WT10-816 | Yeasts and Moulds | WT10-818 |
| Lactic acid bacteria | WT10-820 | Staphylococci | WT10-822 |

Other organisms detectable with the appropriate selective media

TECHNICAL SPECIFICATIONS

| | |
|--|---|
| Microbiological Testing | <p>A complete microbiological kit including</p> <ul style="list-style-type: none"> ⊙ Lightweight sterilisable membrane aluminum filtration unit as standard ⊙ Integrated sample cup ⊙ Hand operated vacuum pump and rubber tubing ⊙ 50 aluminum petri-dishes ⊙ Consumables for 300 tests of coliform testing via membrane filtration <ul style="list-style-type: none"> ⊙ Single sterile wrapped gridded 0.45 µm membranes ⊙ Sterile pads ⊙ Sterile sachets of membrane lauryl sulphate broth (MLSB) ⊙ Field dechlorination sachets ⊙ Methanol (subject to shipping regulations) |
| Incubator | <p>A robust incubator comprising of</p> <ul style="list-style-type: none"> ⊙ Single chamber incubator with timer control ⊙ Variable 20°C to 50°C range (ambient +5°C) ⊙ Fan assisted heating elements ⊙ 16 Bit backlit LCD display ⊙ Membrane push button keypad ⊙ External status LEDs ⊙ Integrated Aquasafe® Flexi-Frame ⊙ Dimensions mm 246 x 215 x 162 ⊙ Weight 1.7 Kg |
| Transit Power Pack (TPP) | <ul style="list-style-type: none"> ⊙ 12 V 12 Ah sealed lead acid battery ⊙ 30W, 144Wh output ⊙ Non-spillable and in conformance with IATA regulations ⊙ Visual power indicator with push-to-test button ⊙ IP67-rated waterproof case |
| Dimensions mm | ⊙ 487 x 336 x 229 Primary Kit/300 x 249 x 196 Aquasafe® Transit power pack |
| Weight Kg | ⊙ 11 - Aquaflex® Unit, 3 - Aquaflex® Transit power pack |
| Approvals | ⊙ IP68, CE conformity |
| Features of the case and its components | <ul style="list-style-type: none"> ⊙ Operating temperature completely programmable between 20°C and 50°C ⊙ External LEDs indicate the status of operation of the closed unit ⊙ Fan assisted incubator gives a uniform thermal profile in the chamber ⊙ Integral Aquasafe® Flexi-Frame system ⊙ Housed in a rugged waterproof carry case |

For a full range of consumables - see pages 46 to 49



Dedicated portable microbiology kits

AQUASAFE® MSL50

This dedicated microbiological kit allows easy and portable incubation of your samples through a dual incubator unit. Two efficient independently controlled chambers allow discrete testing of 2 organisms, for example faecal (thermotolerant) and total coliforms, simultaneously.

- ⦿ IP68 waterproof buoyant carry case
- ⦿ High performance removable and rechargeable power pack integrated into the case
- ⦿ Docking station technology allows switching between in-case and bench top operation quickly and easily
- ⦿ Lightweight dual incubator incorporating PetriLok® technology to ensure complete sample stability
- ⦿ Wheeled case with retractable handle allows for simple portability in any situation with the minimum of user fatigue
- ⦿ Dedicated engineered storage tray ensures all consumables and accessories are organised and kept in good condition within the kit



| DESCRIPTION | PRODUCT CODE |
|-------------|--------------|
| MSL50 | WT10-500 |

AQUASAFE® MSL25

A compact yet rugged simple kit dedicated to microbiological testing in the field. The single chamber dockable incubator fits into the small case, along with all the necessary accessories and consumables, using a specially designed storage tray. This keeps them safe from damage or loss.

- ⦿ IP68 waterproof buoyant carry case
- ⦿ High performance removable and rechargeable power pack integrated into the case
- ⦿ Docking station technology allows switching between in-case and bench top operation quickly and easily
- ⦿ Lightweight single incubator incorporating PetriLok® technology to ensure complete sample stability
- ⦿ Compact case with shoulder strap provides a simple and effortless portable solution
- ⦿ Dedicated engineered storage tray ensures all consumables and accessories are organised and kept in good condition within the kit



| DESCRIPTION | PRODUCT CODE |
|-------------|--------------|
| MSL25 | WT10-600 |



TECHNICAL SPECIFICATIONS

| | |
|---|--|
| Test programs | <ul style="list-style-type: none">37°C, 44°C, user defined (20°C to 50°C).Adjustable 24 hour countdown timer. |
| Timer | <ul style="list-style-type: none">Adjustable24 hours with built in 'pause on power loss' feature |
| No of incubation chambers | <ul style="list-style-type: none">2 Aquasafe® MSL50 / 1 Aquasafe® MSL25 |
| Max petri dish capacity | <ul style="list-style-type: none">50 Aquasafe® MSL50 / 25 Aquasafe® MSL25 |
| Temperature Range (incubator) | <ul style="list-style-type: none">20°C to 50°C |
| Temperature Resolution | <ul style="list-style-type: none">0.1°C |
| Temperature Stability | <ul style="list-style-type: none">+/- 0.1°C |
| Dimensions mm | <ul style="list-style-type: none">430 x 290 x 280 |
| Weight Kg | <ul style="list-style-type: none">20 Aquasafe® MSL50 / 12 Aquasafe® MSL25 |
| Approvals | <ul style="list-style-type: none">IP68, CE-conformity |
| Features of the case and its components | <ul style="list-style-type: none">Fully waterproof and buoyant with both handle and shoulder strapCase floats, even when fullIn-Case docking station technologySpecifically designed and engineered storage tray as standard for consumables and accessoriesPetriLok® technology on every petri-dish stack |

For a full range of consumables - see pages 46 to 49





Visual physico-chemical tests

BASIC POOLTESTER BLOCK

When fast and easy testing of chlorine or pH levels is required, nothing could be easier than a simple pooltester method using the DPD or phenol red tablet system.

- High quality rugged block with dual chamber chlorine/pH measurement
- Easy integrated colour comparison chart
- Chlorine chamber able to measure both residual (free) and total chlorine
- Uses standard DPD1 and 3 tablets for chlorine testing and phenol red for pH testing
- Provided in a case to avoid damage during transport and use
- Provided with 10 tablets each of DPD1, DPD3 and phenol red

Replacement Tablets:

| TEST | PRODUCT CODE |
|---|--------------|
| Free and total chlorine combined pack (250 tests) | WT11-118 |
| pH (250 tests) | WT11-188 |



| DESCRIPTION | PRODUCT CODE |
|------------------|--------------|
| Pooltester Block | WT11-100 |

COMPARATOR BLOCK WITH WHEELS

When a wider range of chemical tests may be required, or the flexibility to add tests at a later date is desirable, a comparator block using the wheel comparator method is a great choice.

- Fast and simple testing of multiple chemical parameters
- Easy to switch between tests simply by inserting a different wheel
- Chemical reagents can be purchased separately saving money and storage space, giving maximum flexibility
- A wide range of chemical tests available
- Provided in a case to avoid damage during transport and use



| TEST | PRODUCT CODE REAGENT | PRODUCT CODE WHEELS |
|---|----------------------|---------------------|
| Ammonia (250 tests) | WT11-110 | WT12-110 |
| Free and total chlorine combined pack (250 tests) | WT11-118 | WT12-118 |
| pH (250 tests) | WT11-188 | WT12-188 |
| Nitrate (250 tests) | WT11-174 | WT12-174 |
| Nitrite (250 tests) | WT11-176 | WT12-176 |

For a full range of reagents - see page 48



JACKSON TURBIDITY TUBE

This simple and familiar visual test for turbidity uses a 2-part tube with our unique threaded locking mechanism ensuring that the two halves will not come apart, even during one-handed use.

This reduces the risk of breakage when taking apart the traditionally fragile tube sections for storage by reducing the likelihood of sheer forces on the joint.

- ⦿ Very robust 2 section tube
- ⦿ Calibrated scale integrated into the tube
- ⦿ Clear identifier at the base of the tube
- ⦿ Simple one handed operation possible through the threaded locking mechanism
- ⦿ Measurement between 5 and 2000 NTUs
- ⦿ No consumables required
- ⦿ Low cost reliable visual method



| DESCRIPTION | PRODUCT CODE |
|------------------------|--------------|
| Jackson Turbidity Tube | WT11-300 |



Pocket single parameter water testing

HYDROLITE

These small, simple to use, single parameter instruments give instant and accurate results for pH, conductivity/ TDS/salinity or dissolved oxygen.

- Lightweight stick meter that literally fits in your pocket
- IP67 rated
- Simple to use controls
- Can be easily calibrated using 1, 2 or 3 points
- Automatic temperature compensation
- Auto-hold function to freeze stable readings for ease of recording



TECHNICAL SPECIFICATIONS

| | RANGE | ACCURACY | RESOLUTION |
|-----------------------------|-------------------------|--------------|---------------------|
| HL101 Meter | | | |
| pH | -1.00 to 15.00 | 0.01 | 0.01 |
| Temperature | 0°C to 60°C | +/- 0.1°C | 0.1°C |
| HL102 Meter | | | |
| Conductivity | 0-20.00, 200.0, 2000 µs | +/- 1% F.S. | 0.01, 0.1, 1 µs |
| TDS | 0-10 ppt (max 20 ppt) | +/-1% F.S. | 0.1-1 (default 0.5) |
| Salinity | 0-10 ppt | +/-1% F.S. | 0.01 ppt |
| HL103 Meter | | | |
| Dissolved Oxygen | 0.0-20.0 mg/L (or ppm) | +/- 0.5 mg/L | 0.1 mg/L |
| % O ₂ Saturation | 0.0-200.0% | +/-10% F.S. | 0.1% |

OTHER SPECIFICATIONS – ALL UNITS

| | |
|--------------------|---|
| Hold Function | Manual or Automatic |
| Power Off | Manual or Automatic (8 mins from last key depression) |
| Reset Function | Yes |
| Power Requirements | 2 x 1.5 V “AAA” Batteries |
| Battery life | Approximately 200 hours (150 hours for HL103) |
| Dimensions mm | 185 (L) x 40 (dia) |
| Weight g | c.100 |
| Rating | IP67 |
| Electrodes | Fully replaceable |

| DESCRIPTION | PRODUCT CODE |
|--------------------|--------------|
| HydroLite pH HL101 | WT13-101 |
| HydroLite EC HL102 | WT13-102 |
| HydroLite DO HL103 | WT13-103 |

For a full range of consumables - see page 47





Portable multi-parameter photometer for chemical testing

HYDROTEST HT1000

A rugged and waterproof photometer with in excess of 120 pre-programmed tests across over 40 chemical parameters, from alkalinity to zinc. The HT1000 is a simple to use unit available as a kit or as a instrument only package.

- ⦿ Ergonomic design
- ⦿ Fully waterproof to IP68 conditions
- ⦿ Precision optics, including long life LEDs and highly accurate photo sensors
- ⦿ NIST traceable calibration capability if required
- ⦿ Data storage for up to 1000 data sets stored directly on the unit
- ⦿ Backlit LCD display
- ⦿ Over 120 easily accessible methods as standard
- ⦿ Measures turbidity and TSS without reagents



| DESCRIPTION | | PART NUMBER |
|---------------------|---|-------------|
| Complete HT1000 Kit | A robust hard shell carry case including: <ul style="list-style-type: none">⦿ HT1000 photometer⦿ Dilution kit⦿ Brushes⦿ Tubes⦿ Manual⦿ Space within the case for a selection of tablet reagents (see pages 46 to 49 for details) | WT13-200 |
| HT1000 unit | An HT1000 photometer in a soft material case | WT13-300 |



The HT1000 multi-parameter photometer offers ease of use with simple programme control with easy visualisation using its backlit LCD display, making it the perfect choice for operators of any ability. The pressure resistant protected screen and the robust IP68 enclosure ensure operation in any working environment under any field conditions.

TECHNICAL SPECIFICATIONS

| | |
|-----------------------|---|
| User interface | <ul style="list-style-type: none"> ⊙ Backlit LCD graphical display ⊙ Touch sensitive keypad ⊙ Audible buzzer on error |
| Portability | <ul style="list-style-type: none"> ⊙ Lightweight handheld unit ⊙ Battery operation 4 x AA/LR6 batteries ⊙ Provided in either a hard shell carry case as a kit or a soft case as a single unit |
| Protection | <ul style="list-style-type: none"> ⊙ IP68 rated waterproof case ⊙ Pressure resistant screen ⊙ Hard case (in the kit version) ⊙ Chemical resistant housing |
| Data | <ul style="list-style-type: none"> ⊙ 1000 data sets storage on the unit ⊙ Download via IR (Requires separate Trace2o® PC-Link module, part number WT50-500) ⊙ Language capability in English, French, Spanish and Portuguese ⊙ Other languages available on request |
| Optical | <ul style="list-style-type: none"> ⊙ Wavelength accuracy +/- 1 nm ⊙ Wavelengths 430, 530, 560, 580, 610 and 660 nm ⊙ Accuracy 2% F.S. @20°C to 25°C ⊙ Resolution 0.005 Abs |
| Parameters | ⊙ Over 40 parameters available (see page 31) |
| Approvals | ⊙ CE conformity, IP68 rated |
| Dimensions mm | ⊙ 470 x 365 x 190 (in case in kit format) |
| Weight Kg | ⊙ 7.5 (in case in kit format) |





MULTI-PARAMETER PHOTOMETER

WAGTECH PROJECTS





PARAMETERS AND REAGENTS FOR HYDROTEST HT1000 PHOTOMETER

| PARAMETER | RANGE | PRODUCT CODE | |
|---------------------------|-----------------|--------------|----------|
| HYDROTEST® REAGENT PACKS | | X 250 | X 50 |
| Alkalinity-M | 0 - 200 mg/L | WT11-102 | WT11-101 |
| Alkalinity-M (HR) | 0 - 500 mg/L | WT11-104 | WT11-103 |
| Alkalinity-P | 0 - 300 mg/L | WT11-106 | WT11-105 |
| Aluminium | 0 - 0.3 mg/L | WT11-108 | WT11-107 |
| Ammonia | 0 - 1 mg/L | WT11-110 | WT11-109 |
| Boron | 0 - 2 mg/L | WT11-112 | WT11-111 |
| Bromine | 0 - 13 mg/L | WT11-114 | WT11-113 |
| Chloride | 0 - 25 mg/L | WT11-116 | WT11-115 |
| Chlorine (free & total) | 0 - 6 mg/L | WT11-118 | WT11-117 |
| Chlorine (High Ca) | 0 - 6 mg/L | WT11-120 | WT11-119 |
| Chlorine (HR) | 0 - 10 mg/L | WT11-122 | WT11-121 |
| Chlorine Dioxide | 0 - 11 mg/L | WT11-124 | WT11-123 |
| Chromium (VI) | 0 - 2 mg/L | WT11-126 | WT11-125 |
| Chromium (Total) | 0 - 2 mg/L | WT11-128 | WT11-127 |
| COD (LR) | 0 - 150 mg/L | WT11-130* | N/A |
| COD (MR) | 0 - 1,500 mg/L | WT11-132* | N/A |
| COD (HR) | 0 - 15,000 mg/L | WT11-134* | N/A |
| Copper | 0 - 5 mg/L | WT11-136 | WT11-135 |
| Cyanide | 0 - 0.5 mg/L | WT11-138 | WT11-137 |
| Cyanuric Acid | 0 - 160 mg/L | WT11-140 | WT11-139 |
| Fluoride | 0 - 2 mg/L | WT11-142 | WT11-141 |
| Hardness, Calcium | 0 - 500 mg/L | WT11-144 | WT11-143 |
| Hardness, Calcium (HR) | 0 - 900 mg/L | WT11-146 | WT11-145 |
| Hardness, Magnesium | 0 - 500 mg/L | WT11-148 | WT11-147 |
| Hardness, Total | 0 - 500 mg/L | WT11-150 | WT11-149 |
| Hydrazine | 0 - 0.5 mg/L | WT11-152 | WT11-151 |
| Hydrogen Peroxide | 0 - 3 mg/L | WT11-154 | WT11-153 |
| Iodine | 0 - 3.6 mg/L | WT11-156 | WT11-155 |
| Iron (LR) | 0 - 1 mg/L | WT11-158 | WT11-157 |
| Iron (LR, differentiated) | 0 - 1 mg/L | WT11-160 | WT11-159 |
| Iron (MR) | 0 - 5 mg/L | WT11-162 | WT11-161 |
| Iron (HR) | 0 - 10 mg/L | WT11-164 | WT11-163 |
| Manganese | 0 - 4 mg/L | WT11-166 | WT11-165 |
| Molybdate | 0 - 50 mg/L | WT11-168 | WT11-167 |
| Monochloramine | 0 - 4.5 mg/L | WT11-170 | WT11-169 |
| Nickel | 0 - 10 mg/L | WT11-172 | WT11-171 |
| Nitrate | 0 - 1 mg/L | WT11-174 | WT11-173 |
| Nitrite | 0 - 0.5 mg/L | WT11-176 | WT11-175 |
| Oxygen, active | 0 - 10 mg/L | WT11-178 | WT11-177 |
| Ozone | 0 - 1 mg/L | WT11-180 | WT11-179 |
| Phosphate, ortho (LR) | 0 - 4 mg/L | WT11-182 | WT11-181 |
| Phosphate, ortho (HR) | 0 - 80 mg/L | WT11-184 | WT11-183 |
| pH (LR) | 0 - 6.8 | WT11-186 | WT11-185 |
| pH (MR) | 0 - 8.4 | WT11-188 | WT11-187 |
| pH (HR) | 0 - 9.6 | WT11-190 | WT11-189 |
| Potassium | 0 - 12 mg/L | WT11-192 | WT11-191 |
| Silica | 0 - 8 mg/L | WT11-194 | WT11-193 |
| Sodium Hypochlorite | 0 - 16% | WT11-196 | WT11-195 |
| Sulphate | 0 - 100 mg/L | WT11-198 | WT11-197 |
| Sulphide | 0 - 0.5 mg/L | WT11-200 | WT11-199 |
| Sulphite | 0 - 5 mg/L | WT11-202 | WT11-201 |
| Urea | 0 - 2.5 mg/L | WT11-204 | WT11-203 |
| Zinc | 0 - 1 mg/L | WT11-206 | WT11-205 |

* Pack of 25



Small and lightweight portable turbidity meter

HTTURB

The turbidity, or cloudiness, of a sample is often considered to be an excellent first line assessment of water quality. The HTTurb portable turbidity meter is a simple to use method to identify water turbidity accurately and immediately at source.

High turbidity levels can be directly linked to higher risks of gastro-intestinal diseases due to the suspended particles acting as substrate on which to grow, and interfering with chlorine disinfection. In addition, these solids in the water can also protect bacteria from UV water sterilisation.



| DESCRIPTION | PRODUCT CODE |
|---|--------------|
| HydroTest® portable turbidity meter, including <ul style="list-style-type: none">Set of turbidity standards24 mm sample vialsSample chamber lidVial cleaning clothVial cleaning brushRobust carry case | WT13-400 |
| 24 mm sample vials (pack of 5 vials) | WT13-450 |
| Turbidity standard set | WT13-452 |
| Sample chamber lid (spare) | WT13-454 |
| Vial cleaning cloths (pack of 10) | WT13-456 |
| Vial cleaning brush | WT13-458 |



TECHNICAL SPECIFICATIONS

| | |
|---------------|---|
| Display | ⊙ Backlit LCD Display |
| Optics | ⊙ LED with temperature compensation (860nm) ⊙ Photosensor amplifier ⊙ Infra Red light |
| Keypad | ⊙ Soft key button system ⊙ Splashproof membrane |
| Power | ⊙ 9 V cell |
| Auto Off | ⊙ Yes |
| Memory | ⊙ Internal Storage for 16 data sets |
| Range | ⊙ 0.01 – 1100 NTU |
| Resolution | ⊙ 0.01 – 9.99 = 0.01 NTU ⊙ 10.0 – 99.9 = 0.1 NTU ⊙ 100 – 1100 = 1 NTU |
| Accuracy | ⊙ +/- 2.5% or +/- 0.01 NTU (0-500 NTU range) ⊙ +/- 5% (500-1100 NTU range) |
| Dimensions mm | ⊙ 180 x 85 x 70 |
| Weight Kg | ⊙ 0.3 |
| Approvals | ⊙ CE Conformity, EN ISO 7027 (by virtue of the NTU measurement) |



Portable multi-parameter electrochemical testing

HYDROCHECK HC1000

A portable rugged electrochemical meter for instant and accurate determination of a range of electrochemical measurements via a multi-head probe. Capable of measurement from 3 separate probes simultaneously using a flexible cable that is extendable up to 15 metres.

Available both in a field ready kit with a hard waterproof case and accessories, or as a single unit in a soft case.

- ⦿ Rugged IP67 rated housing
- ⦿ Industrial grade sensors
- ⦿ Backlit LCD screen
- ⦿ Automatic temperature compensation
- ⦿ USB communication interface
- ⦿ 500 data set memory with real time date/time stamp
- ⦿ Capable of accurate ISE measurement with the addition of a Trace2o[®] ISE probe



| DESCRIPTION | | PART NUMBER |
|---------------------|---|-------------|
| Complete HC1000 Kit | A robust hard shell carry case including: <ul style="list-style-type: none">⦿ HC1000 multi-parameter meter⦿ Complete set of calibration buffers<ul style="list-style-type: none">⦿ Replacements available, see page 37⦿ Beaker⦿ Manual⦿ Complete accessories pack | WT14-200 |
| HC1000 unit | <ul style="list-style-type: none">⦿ An HC1000 photometer in a soft material case | WT14-300 |



TECHNICAL SPECIFICATIONS

| | RANGE | ACCURACY | RESOLUTION |
|-----------------------------|------------------------|---------------|----------------|
| pH | -2.00 to 20.00 | +/- 0.002 | 0.1/0.01/0.001 |
| ORP | 0 - +/- 1999.9 mV | +/- 0.2 mV | 1 or 0.1 mV |
| Conductivity | 0 – 200 mS/cm | +/- 0.5% F.S. | 1/0.1/0.01 |
| TDS | 0-10 ppt (max 20 ppt) | +/-1% F.S. | 1/0.1/0.01 ppt |
| Salinity | 0 – 80 ppt/psu | +/- 1% F.S. | 0.1 ppt |
| Resistivity | 0 – 100 MΩ | +/- 1% F.S. | 1/0.1/0.01 MΩ |
| Dissolved Oxygen | 0.0-20.0 mg/L (or ppm) | +/- 0.2 mg/L | 0.1 mg/L |
| % O ₂ Saturation | 0.0-200.0% | +/-2% F.S. | 0.1% |

OTHER SPECIFICATIONS – ALL UNITS

| | |
|----------------|--|
| User Interface | <ul style="list-style-type: none"> ⊙ Backlit multi-function LCD display ⊙ Touch sensitive keypad ⊙ Audible alerts |
| Data | <ul style="list-style-type: none"> ⊙ USB connectivity ⊙ 500 data set memory ⊙ Real time date/time stamp |
| Sensors | <ul style="list-style-type: none"> ⊙ Multi-sensor sonde housing ⊙ Up to 15 metre cable ⊙ Industrial grade sensors |
| Operation | <ul style="list-style-type: none"> ⊙ Temperature compensation 0°C to 100°C ⊙ Selectable stability ⊙ Auto-hold ⊙ Auto off with variable time setting ⊙ Electrode diagnosis ⊙ Calibration due reminder |
| Power | <ul style="list-style-type: none"> ⊙ 3 x AAA/LR03 batteries ⊙ USB power supply (non-recharging) |
| Dimensions mm | ⊙ 470 x 365 x 190 (in case in kit format) |
| Weight Kg | ⊙ 7.5 (in case in kit format) |
| Approvals | ⊙ CE conformity, IP67 rated |







A range of Ion selective electrodes are available for use with the HT1000 unit to expand the testing capability of this unit. All electrodes are supplied with the correct calibration buffer/ISAB as standard.

HYDROCHECK EQUIPMENT

| DESCRIPTION | PRODUCT CODE |
|--|--------------|
| HydroCheck HC1000, kit form with accessories (see page 34) | WT14-200 |
| HydroCheck HC1000, in soft case | WT14-300 |
| ELECTROCHEMISTRY PROBES | PRODUCT CODE |
| Sonde attachment | WT14-401 |
| pH electrode | WT14-402 |
| Conductivity/TDS electrode | WT14-403 |
| Dissolved oxygen electrode | WT14-404 |
| Temperature probe | WT14-405 |
| 10 m probe extension cable | WT14-406 |
| ISE PROBES | PRODUCT CODE |
| Ion Selective Electrode (ISE) for Ammonia | WT14-450 |
| Ion Selective Electrode (ISE) for Ammonium | WT14-452 |
| Ion Selective Electrode (ISE) for Barium | WT14-454 |
| Ion Selective Electrode (ISE) for Bromide | WT14-456 |
| Ion Selective Electrode (ISE) for Cadmium | WT14-458 |
| Ion Selective Electrode (ISE) for Calcium | WT14-460 |
| Ion Selective Electrode (ISE) for Chloride | WT14-462 |
| Ion Selective Electrode (ISE) for Copper/Cupric | WT14-464 |
| Ion Selective Electrode (ISE) for Cyanide | WT14-466 |
| Ion Selective Electrode (ISE) for Fluoride | WT14-468 |
| Ion Selective Electrode (ISE) for Iodide | WT14-470 |
| Ion Selective Electrode (ISE) for Lead | WT14-472 |
| Ion Selective Electrode (ISE) for Nitrate | WT14-474 |
| Ion Selective Electrode (ISE) for Perchlorate | WT14-476 |
| Ion Selective Electrode (ISE) for Potassium | WT14-478 |
| Ion Selective Electrode (ISE) for Silver | WT14-480 |
| Ion Selective Electrode (ISE) for Sodium | WT14-482 |
| Ion Selective Electrode (ISE) for Sulphide | WT14-484 |
| Ion Selective Electrode (ISE) for Thiocyanate | WT14-486 |
| Ion Selective Electrode (ISE) for Water Hardness | WT14-488 |

HYDROCHECK CALIBRATION BUFFERS

| DESCRIPTION | PRODUCT CODE |
|--|--------------|
| pH calibration solution 4.01 (60 ml) | WT14-500 |
| pH calibration solution 7.01 (60 ml) | WT14-502 |
| pH calibration solution 10.01 (Sachet) | WT14-504 |
| EC calibration solution 84uS (60 ml) | WT14-506 |
| EC calibration solution 1413uS (60 ml) | WT14-508 |
| EC calibration solution 12880uS (60 ml) | WT14-510 |
| DO zero point calibration solution (60 ml) | WT14-512 |
| DO 100% (Saturation) calibration kit | WT14-514 |



Portable advanced multi-parameter water quality meter

MULTI-PARAMETER WATER QUALITY MONITORING METER

For when a high number of tests need to be performed simultaneously, this monitor is capable of up to 11 parameters in the field by use of its multi-probe sonde.

This instrument is simple to use, extremely rugged and easy to maintain in the field. In addition, the integrated GPS system allows identification of the exact location of testing and records this for more informative analysis.



- Easy to read backlit LCD screen with clear display even in bright conditions
- Integral GPS receiver
- Built in data logger with up to 1900 data point capacity
- USB connectivity
- Easy to use multilingual menu
- Waterproof casing (IP67)

TECHNICAL SPECIFICATION

| CONTROL UNIT | |
|----------------------|---|
| Display | 80 character FSTN LCD with backlight |
| Data memory | 1900 full datasets plus GLP data |
| GPS Receiver | 12 Channels plus integral antenna |
| GPS Accuracy | +/-10 m in all 3 dimensions |
| Atmospheric Pressure | 150 mb – 1150 mb +/- 1 mb |
| Languages | English, French, Spanish (German also available on request) |
| PC Interface | USB (cable provided) |
| Power | 5 x AA/LR6 Batteries |
| Precision Class | IP67 (30 minutes at 1 m depth) |
| Dimensions mm | 180 x 90 x 39 |
| Weight g | 450 |
| PROBES | |
| Protection Class | IP68 (permanent immersion at 10 m) |
| Immersion Depth | Minimum 75 mm – Maximum 30 m |
| Dimensions mm | 290 x 48 |
| Weight g, Incl Cable | 725 |

| DESCRIPTION | PRODUCT CODE |
|---|--------------|
| Monitor control unit with integral GPS, batteries, USB cable, manual and software, with carry case. Probes not included | WT16-300 |



PROBE PARAMETER SELECTION

| | | |
|------------------------------------|------------------|---|
| Conductivity | Range/Resolution | 0-200 mS/cm (200,000 uS/cm)/ 3 Autorange scales |
| | Accuracy | +/- 1% of reading or 1 uS |
| Depth | Range/Resolution | 0 – 30 m (0-100 Ft)/ 0.01 m (0.01 Ft) |
| | Accuracy | +/- 0.1 m (+/- 0.4 Ft) |
| Dissolved Oxygen (Galvanic) | Range/Resolution | 0-500% / 0-50.00 mg/L / 0.1% / 0.01 mg/L |
| | Accuracy | +/- 1% of reading |
| Dissolved Oxygen (Optical) | Range/Resolution | 0-500% / 0-50.00 mg/L / 0.1% / 0.01 mg/L |
| | Accuracy | +/- 1% of reading (0-200%) or +/-10% 200%+ |
| ORP | Range/Resolution | +/- 2000 mV / 0.1 mV |
| | Accuracy | +/- 0.5 mV |
| pH | Range/Resolution | 0-14 +/- 625 mV / 0.01 +/-0.1 mV |
| | Accuracy | 0.01 +/-0.5 mV |
| Resistivity | Range/Resolution | 5Ω cm – 1MΩ cm/2 Autorange scales |
| | Accuracy | +/- 1% of reading or 1Ω cm |
| Salinity | Range/Resolution | 0 – 70 PSU/0 – 70 ppt (g/Kg)/ 0.01 PSU / 0.01 ppt |
| | Accuracy | +/- 1% or +/- 0.1 unit |
| Specific Gravity (Seawater) | Range/Resolution | 0 - 50 σt/0.1 σt |
| | Accuracy | +/- 1.0 σt |
| Total Dissolved Solids | Range/Resolution | 0 – 100,000 mg/L (ppm)/ 2 Autorange scales |
| | Accuracy | +/- 1% of reading or +/- 1 mg/L |
| Temperature | Range/Resolution | -5°C – 50°C (23°F to 122°F)/ 0.1°C/F |
| | Accuracy | +/- 0.5°C/F |
| Turbidity | Range/Resolution | 0 – 1000 NTU/2 Autorange scales |
| | Accuracy | +/- 2% of autorange |

| | WT16-302 | WT16-304 | WT16-306 | WT16-308 | WT16-310 | WT16-312 | WT16-314 | WT16-316 |
|----------------------|----------|----------|----------|----------|----------|----------|----------|----------|
| Conductivity | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | ✓ |
| Depth | ✓ | | | | | | | |
| DO Galvanic | | | ✓ | ✓ | ✓ | ✓ | | ✓ |
| DO Optical | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ | |
| ORP | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | |
| pH | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | |
| Resistivity | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | ✓ |
| Salinity | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | ✓ |
| Spec. Gravity | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | ✓ |
| TDS | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | ✓ |
| Temperature | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Turbidity | ✓ | ✓ | ✓ | | ✓ | | ✓ | |

Other probes, including ISE, Chlorophyll, Phycocyanin, Phycoerythrin, Rhodamine, Fluorescein, Refined Oil and CDOM/FDOM also available.

For a range of calibration buffers - see page 47



Combined portable physico-chemical testing

HYDROKITS

Multiple kits are an expensive and cumbersome way to test for multiple parameters in the field. The HydroKit range is designed to give a user flexibility to choose the best possible kit for purpose, from simple digital measurement to a wider range of more complex and accurate testing. All HydroKits come complete in a rugged waterproof case to ensure the safety and protection of the instruments inside.

Basic combined physico-chemical kit

HYDROKIT HK1000

The most simple of the HydroKit range offers basic water quality analysis using the pocket meters for both pH and conductivity/TDS, along with a high quality comparator block with colour wheels and reagents for ammonia, chlorine (residual and total), nitrate and nitrite. The kit also includes a 2-part Jackson turbidity tube with threaded locking for one-handed operation.

- ⊙ Simple familiar methods
- ⊙ Everything in one kit, including reagents, as standard
- ⊙ Packaged in a hard shell carry case
- ⊙ Includes the HydroLite pH and conductivity (see page 26)
- ⊙ Incorporates the Trace2o[®] comparator block and discs (see page 24)
- ⊙ Complete with 2-part Jackson tube (see page 25)



TECHNICAL SPECIFICATION

| DESCRIPTION | PRODUCT CODE |
|-------------|--------------|
| HK1000 | WT13-500 |

| | |
|-----------------|--|
| Case | <ul style="list-style-type: none">⊙ A single hard shell waterproof case⊙ Soft grip handle for easy carriage |
| Digital Testing | <ul style="list-style-type: none">⊙ Pocket pH/temperature meter⊙ Pocket EC/TDS meter |
| Visual Testing | <ul style="list-style-type: none">⊙ Comparator block with wheels and reagents for<ul style="list-style-type: none">⊙ Ammonia⊙ Chlorine (both residual and total chlorine)⊙ Nitrate⊙ Nitrite⊙ 2-Part Jackson turbidity Tube with threaded locking mechanism |
| Dimensions mm | ⊙ 470 x 365 x 190 |
| Weight Kg | ⊙ 4 |



Intermediate combined physico-chemical kit

HYDROKIT PLUS HK2000

A mid range water quality analysis kit including 2 separate pocket meters for pH and conductivity from the HydroLite range, and a quality multi-parameter photometer (HT1000) for a broad range of chemical tests and turbidity. The waterproof carry case also contains reagent for ammonia, chlorine (residual and total), nitrate and nitrite and also calibration buffers for the pocket meters.

- ⦿ Accurate chemical testing capability
- ⦿ Digital turbidity reading
- ⦿ Includes the HydroLite pH and conductivity (see page 26)
- ⦿ Incorporates the HT1000 multi-parameter photometer (see page 28)
- ⦿ Single, hard shelled carry case for ease of carriage
- ⦿ Includes reagents for standard water quality tests



| DESCRIPTION | PRODUCT CODE |
|-------------|--------------|
| HK2000 | WT13-600 |

TECHNICAL SPECIFICATION

| | |
|-----------------|--|
| Case | <ul style="list-style-type: none">⦿ A single hard shell waterproof case⦿ Soft grip handle for easy carriage |
| Digital Testing | <ul style="list-style-type: none">⦿ Pocket pH/temperature meter⦿ Pocket EC/TDS meter⦿ Digital multiparameter photometer⦿ Digital turbidity capability |
| Reagents | <ul style="list-style-type: none">⦿ Tablet reagents for testing of<ul style="list-style-type: none">⦿ Ammonia⦿ Residual chlorine⦿ Total chlorine⦿ Nitrate⦿ Nitrite |
| Dimensions mm | ⦿ 470 x 365 x 190 |
| Weight Kg | ⦿ 6 |

Additional reagents and accessories for further chemical tests available – see pages 47 and 48 for details



Advanced combined physico-chemical kit

HYDROKIT PRO HK3000

This high level physico-chemical kit includes both a multi-parameter photometer and multi-parameter electrochemistry meter to give enhanced accuracy in all areas of water quality testing. The kit also includes a dedicated turbidity meter for high accuracy testing in NTU and a rapid visual system for the testing of total Arsenic. A comprehensive kit for a complete field testing programme.

- ⊙ A full range of chemical tests
- ⊙ Incorporates the HT1000 multi-parameter photometer (see page 28)
- ⊙ Includes the HC1000 multi-parameter electrochemical meter (see page 34)
- ⊙ Integral HTTurb meter (see page 32)
- ⊙ Single, hard shelled carry case for ease of carriage
- ⊙ Includes reagents for standard water quality tests



| DESCRIPTION | PRODUCT CODE |
|-------------|--------------|
| HK3000 | WT13-700 |

TECHNICAL SPECIFICATION

| | |
|------------------------|--|
| Case | <ul style="list-style-type: none"> ⊙ 2 hard-shell waterproof cases ⊙ Soft grip handle for easy carriage |
| Digital Testing | <ul style="list-style-type: none"> ⊙ Digital multi-parameter photometer ⊙ Digital multi-parameter electrochemical meter ⊙ Dedicated digital turbidity meter |
| Reagents | <ul style="list-style-type: none"> ⊙ Tablet reagents for testing of <ul style="list-style-type: none"> ⊙ Ammonia ⊙ Residual chlorine ⊙ Total chlorine ⊙ Nitrate ⊙ Nitrite |
| Visual Testing | <ul style="list-style-type: none"> ⊙ Rapid total arsenic |
| Dimensions mm | ⊙ 470 x 365 x 190 |
| Weight Kg | ⊙ 6 |

Additional reagents and accessories for further chemical tests available – see pages 47 to 49 for details



Comprehensive combined physico-chemical kit

HYDROKIT ULTRA HK5000

A rapid and highly accurate trace heavy metals analyser measuring to ppb levels in the field is added to the HydroKit Pro 3000 to create this complete kit.

- ⊙ Laboratory quality testing in the field
- ⊙ Results in minutes
- ⊙ Incorporates the HT1000 multi-parameter photometer (see page 28)
- ⊙ Includes the HC1000 multi-parameter electrochemical meter (see page 34)
- ⊙ Integral HTTurb meter (see page 32)
- ⊙ Features the Metalyser® HM1000 unit (see page 50)
- ⊙ Two soft handled hard shell carry cases for ease of portability



| DESCRIPTION | PRODUCT CODE |
|-------------|--------------|
| HK5000 | WT13-800 |

TECHNICAL SPECIFICATION

| | |
|-----------------|--|
| Case | <ul style="list-style-type: none">⊙ A single hard shell waterproof case⊙ Soft grip handle for easy carriage |
| Digital Testing | <ul style="list-style-type: none">⊙ Digital multi-parameter photometer⊙ Digital multi-parameter electrochemical meter⊙ Dedicated digital turbidity meter⊙ Trace heavy metals analyser |
| Reagents | <ul style="list-style-type: none">⊙ Tablet reagents for testing of<ul style="list-style-type: none">⊙ Ammonia⊙ Residual chlorine⊙ Total chlorine⊙ Nitrate⊙ Nitrite |
| Heavy Metals | <ul style="list-style-type: none">⊙ Reagents for cadmium, lead, mercury, arsenic III, copper and zinc |
| Dimensions mm | <ul style="list-style-type: none">⊙ 470 x 365 x 190 |
| Weight Kg | <ul style="list-style-type: none">⊙ 15 |

Additional reagents for further chemical tests available – see pages 46 to 49 for details



A full range of accessories and consumables for your HydroKit are available, ranging from buffers and tablet reagents to spares and electrodes.

HYDROKIT

KIT CONFIGURATION

| DESCRIPTION | PART NUMBER |
|-----------------------|-------------|
| HydroKit HK1000 | WT13-500 |
| HydroKit PLUS HK2000 | WT13-600 |
| HydroKit PRO HK3000 | WT13-700 |
| HydroKit ULTRA HK5000 | WT13-800 |

ACCESSORIES AND CONSUMABLES

| DESCRIPTION | PART NUMBER |
|---|-------------|
| Replacement Electrode for HydroLite® pH pocket meter | WT13-111 |
| Replacement Electrode for HydroLite® EC pocket meter | WT13-112 |
| Replacement Electrode for HydroLite® DO pocket meter | WT13-113 |
| Replacement pH Electrode for HydroCheck® HC1000 | WT14-310 |
| Replacement EC Electrode for HydroCheck® HC1000 | WT14-320 |
| Replacement DO Electrode for HydroCheck® HC1000 | WT14-330 |
| HydroCheck® HC1000 10m extension Cable | WT14-406 |
| Calibration solution for pH 4.01 – 60 ml | WT14-500 |
| Calibration solution for pH 7.00 – 60 ml | WT14-502 |
| Calibration solution for pH 10.01 – Sachet | WT14-504 |
| Calibration solution for EC 84uS – 60 ml | WT14-506 |
| Calibration solution for EC 1413uS – 60 ml | WT14-508 |
| Calibration solution for EC 12880uS – 60 ml | WT14-510 |
| Calibration solution for DO – Zero Point – 60 ml | WT14-512 |
| Calibration solution for DO – 100% (saturation) – 60 ml | WT14-514 |
| 24mm vials for HT1000 (pack of 5) | WT13-350 |
| 16mm vials for HT1000 (pack of 5) | WT13-352 |
| 13mm vial adaptor | WT13-354 |
| Vial cleaning cloths (pack of 10) | WT13-456 |
| Vial cleaning brush | WT13-458 |
| Crushing rods for tablet reagents (pack of 5) | WT13-356 |
| Photometer verification standards (set) | WT13-358 |
| 24mm vials for HTTurb Turbidimeter (pack of 5) | WT13-450 |
| Set of turbidity standards | WT13-452 |

For tablet reagents for the HT1000 - see page 48 for details





A complete range of refill media, membranes and spares

MICROBIOLOGICAL CONSUMABLES AND ACCESSORIES

All the Aquasafe® kits come complete with a full range of consumables for immediate out of the box use. Replacement refill reagents are readily available.

Also, to complement the wide range of testing and measurement equipment available, Wagtech Projects offers a full range of consumables, reagents and accessories to ensure efficient and uninterrupted microbiological testing.

- ⊙ Complete range of replacement reagents and consumables
- ⊙ Full spares listing
- ⊙ Other microbiological media available on request for alternative organisms
 - ⊙ Broth
 - ⊙ Dipslides



| DESCRIPTION | PART NUMBER |
|--|-------------|
| Microbiological consumables pack (300 tests): | WT10-700 |
| ⊙ 300 gridded 0.45 µm 47 mm sterile single wrapped membrane filters | |
| ⊙ 300 47 mm sterile absorbent pads (in tubes of 100 pads) | |
| ⊙ 6 sachets of MLSB media (50 tests per sachet) | |
| Sterile single wrapped 0.45 µm 47 mm membrane filters (300 pack) | WT10-702 |
| Sterile 47 mm absorbent pads (3 x 100 pack) | WT10-704 |
| Pad Dispensers (pack of 2) | WT10-706 |
| MLSB Sachets (pack of 6) for 300 tests | WT10-708 |
| Sterile media bottles (100 ml) pack of 6 bottles | WT10-710 |
| Dechlorination kit | WT10-712 |
| Lubrication grease (30 ml) | WT10-714 |
| Reusable aluminium petri dishes (pack of 50) | WT10-716 |
| PetriLok® system (lid plus dish frame) – 1 set | WT10-718 |
| 5 m Lanyard cable with clip | WT10-720 |
| Padlock for securing the kit lid | WT10-722 |
| Collection cup | WT10-724 |
| Set of forceps/tweezers (1 set) | WT10-726 |
| Hand magnifier (x 10 lens) | WT10-728 |
| 1000 µl (1 ml) variable pipette | WT10-730 |
| 1000 µl pipette tips | WT10-732 |
| Methanol dropper bottle (empty) | WT10-734 |
| Methanol, 30 ml (pack of 10) (May be subject to additional dangerous goods charges, advisable at point of quotation) | WT10-736 |
| Complete membrane filtration unit with gaskets and glass discs | WT10-738 |
| Set of 2 gaskets for the membrane filtration unit | WT10-740 |
| Glass disc for membrane filtration unit | WT10-742 |
| Set of 2 O-rings for membrane filtration unit | WT10-744 |
| Hand pump and tubing for membrane filtration unit | WT10-746 |

Additional consumables are also available, contact info@wagtechprojects.com for any enquiries.



Expand the chemical testing capability of your kit

CHEMICAL REAGENTS AND CONSUMABLES

Your Wagtech Projects kit has such a wide testing capability that it would be impossible to include all reagents and tablets in a standard kit.

Over 40 different chemical parameters can be tested without any extra equipment, just by adding your chosen tablet reagents.

Calibration is simple with the range of buffers and standards available from the range.



- Refill your kit and avoid down time
- A full set of buffers and standards
- Over 40 different chemical parameters
- Simple to expand your kit
- Cheaply and easily customise your testing requirements

| DESCRIPTION | PART NUMBER |
|---|-------------|
| Calibration solution for pH 4.01 – 60 ml | WT14-500 |
| Calibration solution for pH 7.00 – 60 ml | WT14-502 |
| Calibration solution for pH 10.01 – Sachet | WT14-504 |
| Calibration solution for EC 84uS – 60 ml | WT14-506 |
| Calibration solution for EC 1413uS – 60 ml | WT14-508 |
| Calibration solution for EC 12880uS – 60 ml | WT14-510 |
| Calibration solution for DO – Zero Point – 60 ml | WT14-512 |
| Calibration solution for DO – 100% (saturation) – 60 ml | WT14-514 |
| 24 mm vials for HT1000 (pack of 5) | WT13-350 |
| 16 mm vials for HT1000 (pack of 5) | WT13-352 |
| 13 mm vial adaptor | WT13-354 |
| Vial cleaning cloths (pack of 10) | WT13-456 |
| Vial cleaning brush | WT13-458 |
| Crushing rods for tablet reagents (pack of 5) | WT13-356 |
| Photometer verification standards (set) | WT13-358 |
| 24 mm vials for HTTurb Turbidimeter (pack of 5) | WT13-450 |
| Set of turbidity standards | WT13-452 |
| Methanol dropper bottle (empty) | WT10-734 |



PARAMETERS AND REAGENTS FOR PHOTOMETER AND COMPARATOR

| PARAMETER | RANGE | PRODUCT CODE | | |
|---------------------------|-----------------|--------------|----------|--------------------|
| HYDROTEST® REAGENT PACKS | | X 250 | X 50 | COMPARATOR WHEEL** |
| Alkalinity-M | 0 - 200 mg/L | WT11-102 | WT11-101 | WT12-102 |
| Alkalinity-M (HR) | 0 - 500 mg/L | WT11-104 | WT11-103 | WT12-104 |
| Alkalinity-P | 0 - 300 mg/L | WT11-106 | WT11-105 | WT12-106 |
| Aluminium | 0 - 0.3 mg/L | WT11-108 | WT11-107 | WT12-108 |
| Ammonia | 0 - 1 mg/L | WT11-110 | WT11-109 | WT12-110 |
| Boron | 0 - 2 mg/L | WT11-112 | WT11-111 | WT12-112 |
| Bromine | 0 - 13 mg/L | WT11-114 | WT11-113 | WT12-114 |
| Chloride | 0 - 25 mg/L | WT11-116 | WT11-115 | WT12-116 |
| Chlorine (free & total) | 0 - 6 mg/L | WT11-118 | WT11-117 | WT12-118 |
| Chlorine (High Ca) | 0 - 6 mg/L | WT11-120 | WT11-119 | WT12-120 |
| Chlorine (HR) | 0 - 10 mg/L | WT11-122 | WT11-121 | WT12-122 |
| Chlorine Dioxide | 0 - 11 mg/L | WT11-124 | WT11-123 | WT12-124 |
| Chromium (VI) | 0 - 2 mg/L | WT11-126 | WT11-125 | WT12-126 |
| Chromium (Total) | 0 - 2 mg/L | WT11-128 | WT11-127 | WT12-128 |
| COD (LR) | 0 - 150 mg/L | WT11-130* | N/A | N/A |
| COD (MR) | 0 - 1,500 mg/L | WT11-132* | N/A | N/A |
| COD (HR) | 0 - 15,000 mg/L | WT11-134* | N/A | N/A |
| Copper | 0 - 5 mg/L | WT11-136 | WT11-135 | WT12-136 |
| Cyanide | 0 - 0.5 mg/L | WT11-138 | WT11-137 | WT12-138 |
| Cyanuric Acid | 0 - 160 mg/L | WT11-140 | WT11-139 | WT12-140 |
| Fluoride | 0 - 2 mg/L | WT11-142 | WT11-141 | WT12-142 |
| Hardness, Calcium | 0 - 500 mg/L | WT11-144 | WT11-143 | WT12-144 |
| Hardness, Calcium (HR) | 0 - 900 mg/L | WT11-146 | WT11-145 | WT12-146 |
| Hardness, Magnesium | 0 - 500 mg/L | WT11-148 | WT11-147 | WT12-148 |
| Hardness, Total | 0 - 500 mg/L | WT11-150 | WT11-149 | WT12-150 |
| Hydrazine | 0 - 0.5 mg/L | WT11-152 | WT11-151 | WT12-152 |
| Hydrogen Peroxide | 0 - 3 mg/L | WT11-154 | WT11-153 | WT12-154 |
| Iodine | 0 - 3.6 mg/L | WT11-156 | WT11-155 | WT12-156 |
| Iron (LR) | 0 - 1 mg/L | WT11-158 | WT11-157 | WT12-158 |
| Iron (LR, differentiated) | 0 - 1 mg/L | WT11-160 | WT11-159 | WT12-160 |
| Iron (MR) | 0 - 5 mg/L | WT11-162 | WT11-161 | WT12-162 |
| Iron (HR) | 0 - 10 mg/L | WT11-164 | WT11-163 | WT12-164 |
| Manganese | 0 - 4 mg/L | WT11-166 | WT11-165 | WT12-166 |
| Molybdate | 0 - 50 mg/L | WT11-168 | WT11-167 | WT12-168 |
| Monochloramine | 0 - 4.5 mg/L | WT11-170 | WT11-169 | WT12-170 |
| Nickel | 0 - 10 mg/L | WT11-172 | WT11-171 | WT12-172 |
| Nitrate | 0 - 1 mg/L | WT11-174 | WT11-173 | WT12-174 |
| Nitrite | 0 - 0.5 mg/L | WT11-176 | WT11-175 | WT12-176 |
| Oxygen, active | 0 - 10 mg/L | WT11-178 | WT11-177 | WT12-178 |
| Ozone | 0 - 1 mg/L | WT11-180 | WT11-179 | WT12-180 |
| Phosphate, ortho (LR) | 0 - 4 mg/L | WT11-182 | WT11-181 | WT12-182 |
| Phosphate, ortho (HR) | 0 - 80 mg/L | WT11-184 | WT11-183 | WT12-184 |
| pH (LR) | 0 - 6.8 | WT11-186 | WT11-185 | WT12-186 |
| pH (MR) | 0 - 8.4 | WT11-188 | WT11-187 | WT12-188 |
| pH (HR) | 0 - 9.6 | WT11-190 | WT11-189 | WT12-190 |
| Potassium | 0 - 12 mg/L | WT11-192 | WT11-191 | WT12-192 |
| Silica | 0 - 8 mg/L | WT11-194 | WT11-193 | WT12-194 |
| Sodium Hypochlorite | 0 - 16% | WT11-196 | WT11-195 | WT12-196 |
| Sulfate | 0 - 100 mg/L | WT11-198 | WT11-197 | WT12-198 |
| Sulfide | 0 - 0.5 mg/L | WT11-200 | WT11-199 | WT12-200 |
| Sulfite | 0 - 5 mg/L | WT11-202 | WT11-201 | WT12-202 |
| Urea | 0 - 2.5 mg/L | WT11-204 | WT11-203 | WT12-204 |
| Zinc | 0 - 1 mg/L | WT11-206 | WT11-205 | WT12-206 |

* Pack of 25

**Some wheels not yet available, please contact info@wagtechprojects for details



HEAVY METALS ANALYSIS PARAMETERS AND REAGENTS

| DESCRIPTION | PRODUCT CODE | PRODUCT CODE |
|---|--------------|--------------|
| METALYSER® COMBINED CONSUMABLES PACKS | 50 TESTS | 200 TESTS |
| Combined Consumables Pack for Cd, Pb, Cu, Zn | WT15-620 | WT15-621 |
| Combined Consumables Pack for Hg | WT15-622 | WT15-623 |
| Combined Consumables Pack for As | WT15-624 | WT15-625 |
| Combined Consumables Pack for Mn | WT15-626 | WT15-627 |
| Combined Consumables Pack for Cr (VI) | WT15-628 | WT15-629 |
| Combined Consumables Pack for Ni | WT15-630 | WT15-631 |
| Combined Consumables Pack for Bi | WT15-632 | WT15-633 |
| Combined Consumables Pack for Co | WT15-634 | WT15-635 |
| Combined Consumables Pack for Au | WT15-636 | WT15-637 |
| Combined Consumables Pack for Se | WT15-638 | WT15-639 |
| Combined Consumables Pack for Sn | WT15-640 | WT15-641 |
| Combined Consumables Pack for Tl | WT15-642 | WT15-643 |
| Combined Consumables Pack for Sb | WT15-644 | WT15-645 |
| METALOMETER COMBINED CONSUMABLES PACKS | 50 TESTS | 200 TESTS |
| Combined Consumables Pack for Al (Phot) | WT15-646 | WT15-647 |
| Combined Consumables Pack for B (Phot) | WT15-648 | WT15-649 |
| Combined Consumables Pack for Fe (Phot) | WT15-650 | WT15-651 |
| Combined Consumables Pack for Cu (Phot) | WT15-652 | WT15-653 |
| Combined Consumables Pack for Mn (Phot) | WT15-654 | WT15-655 |
| Combined Consumables Pack for Cr (VI) (Phot) | WT15-656 | WT15-657 |
| Combined Consumables Pack for Ni (Phot) | WT15-658 | WT15-659 |
| METALYSER® STARTER PACKS - 50 TESTS | PRODUCT CODE | |
| Starter Pack for Cd, Pb, Cu, Zn | WT15-660 | |
| Starter Pack for Hg | WT15-661 | |
| Starter Pack for As | WT15-662 | |
| Starter Pack for Mn | WT15-663 | |
| Starter Pack for Cr (VI) | WT15-664 | |
| Starter Pack for Ni | WT15-665 | |
| Starter Pack for Bi | WT15-666 | |
| Starter Pack for Co | WT15-667 | |
| Starter Pack for Au | WT15-668 | |
| Starter Pack for Se | WT15-669 | |
| Starter Pack for Sn | WT15-670 | |
| Starter Pack for Tl | WT15-671 | |
| Starter Pack for Sb | WT15-672 | |
| METALYSER® MISC. CONSUMABLES | PRODUCT CODE | |
| Deionised water, 500 ml | WT15-673 | |
| Pipette tips, 100-1000 uL (pack of 1000) | WT15-674 | |
| Pipette tips, 10-100 uL (pack of 1000) | WT15-675 | |
| Reference electrode fill solution, 8 ml | WT15-676 | |
| Stirrer oil, 8 ml | WT15-677 | |
| Polishing dish with glass platen | WT15-678 | |
| Polishing cloths (pack of 5) | WT15-679 | |
| Polishing slurry, 30 ml | WT15-680 | |
| Polishing kit (dish, cloths and slurry) | WT15-681 | |
| Concentrated Hydrochloric Acid for Total As, 150 ml | WT15-682 | |
| Soil Extraction Consumables Kit (50 extractions) | WT15-683 | |
| Carbon-containing electrode for Cr (VI) | WT15-684 | |



Accurate trace heavy metals analysis in the field

METALYSER® HM1000

Measuring heavy metals content of water, down to ppb levels, is easy with this lightweight portable system. Ten different heavy metal analyses are possible in minutes with all components housed in a single easy to carry hard shell case.

- ⊙ Fast accurate results without a PC
- ⊙ Test at site to avoid any sample degradation
- ⊙ Built in analysis software
- ⊙ High capacity logger (up to 1000 data points)
- ⊙ Transfer to PC via USB
- ⊙ Full backlit graphical LCD display



| DESCRIPTION | PRODUCT CODE |
|-------------|--------------|
| HM1000 | WT15-600 |

TECHNICAL SPECIFICATION

| | |
|--|---|
| Portability | <ul style="list-style-type: none">⊙ Lightweight carry case⊙ One handed operation |
| Detection Principle | <ul style="list-style-type: none">⊙ Stripping voltammetry |
| Detectable Parameters (All under WHO Guidelines) | <ul style="list-style-type: none">⊙ Arsenic III (5 ppb)⊙ Arsenic (Total) (10 ppb)⊙ Cadmium (3 ppb)⊙ Chromium (50 ppb)⊙ Copper (5 ppb)⊙ Lead (5 ppb)⊙ Manganese (5 ppb)⊙ Mercury (5 ppb)⊙ Nickel (10 ppb)⊙ Zinc (5 ppb) |
| Unit | <ul style="list-style-type: none">⊙ Full graphics backlit LCD display⊙ Rugged housing⊙ One-handed cursor control⊙ Built in analysis software⊙ Operating temperature -20°C to 70°C |
| Dimensions mm | <ul style="list-style-type: none">⊙ 487 x 386 x 229 (in-case) |
| Weight Kg | <ul style="list-style-type: none">⊙ 9 |
| Approvals | <ul style="list-style-type: none">⊙ IP67, CE marked |

For a complete range of Metalyser® reagents, consumables and spares - see page 49





A broad trace metals field testing capability

METALYSER® HM2000

When your metals testing requires a greater range of parameters, the HM2000 adds a second small Metalometer unit allowing for additional tests, without compromising the single case portability of the kit. These combined technologies offer flexibility for heavy metal screening.

- ⊙ Up to 16 possible tests to ppm and ppb levels
- ⊙ Built in data analysis software
- ⊙ Fast accurate results without a PC
- ⊙ High capacity logger (up to 1000 data points)
- ⊙ Transfer to PC via USB
- ⊙ Full backlit graphical LCD display
- ⊙ 2 easy to carry lightweight cases



TECHNICAL SPECIFICATION

| DESCRIPTION | PRODUCT CODE |
|-------------|--------------|
| HM2000 | WT15-602 |

| | | |
|---|---|---|
| Portability | <ul style="list-style-type: none"> ⊙ 2 lightweight carry cases ⊙ One handed operation | |
| Detection Principle | ⊙ Stripping voltammetry and photometry | |
| Detectable Parameters (All under WHO Guidelines) | <ul style="list-style-type: none"> ⊙ Aluminium (10 ppb) ⊙ Arsenic III (5 ppb) ⊙ Arsenic (Total) (10 ppb) ⊙ Boron (100 ppb) ⊙ Cadmium (3 ppb) ⊙ Chromium (20 ppb) ⊙ Copper (5 ppb) | <ul style="list-style-type: none"> ⊙ Iron (20 ppb) ⊙ Lead (5 ppb) ⊙ Manganese (5 ppb) ⊙ Mercury (5 ppb) ⊙ Nickel (100 ppb) ⊙ Zinc (5 ppb) |
| Unit | <ul style="list-style-type: none"> ⊙ Full graphics backlit LCD display ⊙ Rugged housing ⊙ One-handed cursor control (Metalyser) ⊙ Soft key pad (Metalometer) ⊙ Built in analysis software ⊙ Operating temperature -20°C to 70°C | |
| Dimensions mm | ⊙ 487 x 386 x 229 (in-case) | |
| Weight Kg | ⊙ 9 | |
| Approvals | ⊙ IP67, CE marked | |

For a complete range of Metalyser® reagents, consumables and spares - see page 49



The ultimate in field trace heavy metals testing

METALYSER® HM3000

The complete heavy metals testing water laboratory . . . in a case.

This heavy metals analysis laboratory comes complete with a tablet PC for in depth data manipulation in the field. This increased flexibility allows a wider testing capability to include 17 parameters with a sensitivity as low as ppb in many instances.

- ⊙ Tablet PC with dedicated software and auto-storage
- ⊙ New applications can be downloaded via GSM
- ⊙ Uses stripping voltammetry as its analysis method
- ⊙ Detection levels as low as ppb in many instances
- ⊙ Capable of accurate analysis of 17 parameters in the field (more with added Metalometer)



| DESCRIPTION | PRODUCT CODE |
|-------------|--------------|
| HM3000 | WT15-604 |

TECHNICAL SPECIFICATION

| | | |
|---|--|---|
| Portability | <ul style="list-style-type: none"> ⊙ Lightweight carry case ⊙ One handed operation | |
| Detection Principle | ⊙ Stripping voltammetry | |
| Detectable Parameters (All under WHO Guidelines) | <ul style="list-style-type: none"> ⊙ Antimony (10 ppb) ⊙ Arsenic III (1 ppb) ⊙ Arsenic (Total) (10 ppb) ⊙ Bismuth (10 ppb) ⊙ Cadmium (1 ppb) ⊙ Chromium (50 ppb) ⊙ Cobalt (20 ppb) ⊙ Copper (1 ppb) ⊙ Gold (10 ppb) | <ul style="list-style-type: none"> ⊙ Lead (1 ppb) ⊙ Manganese (1 ppb) ⊙ Mercury (1 ppb) ⊙ Nickel (10 ppb) ⊙ Selenium (5 ppb) ⊙ Thallium (1 ppb) ⊙ Tin (10 ppb) ⊙ Zinc (5 ppb) |
| Unit | <ul style="list-style-type: none"> ⊙ Tablet PC with 10.1" LED touch screen ⊙ Rugged housing ⊙ Built in analysis software ⊙ Operating temperature -20°C to 70°C | |
| Dimensions mm | ⊙ 2 x cases of 487 x 386 x 229 (in-case) | |
| Weight Kg | ⊙ 18 | |
| Approvals | ⊙ IP67, CE marked | |

For a complete range of Metalyser® reagents, consumables and spares - see page 49



The complete trace heavy metals laboratory solution

METALYSER® HM5000

The complete professional laboratory system for heavy metals analysis, giving complete control to the laboratory, either for standard analysis or method development. This bench mounted system has a small footprint, offers the speed of the portable systems and is suitable for all research.

- ⦿ Fully programmable to allow for method development
- ⦿ Full PC control via USB or wireless connectivity
- ⦿ Metaware Benchtop graphical control software
- ⦿ Full range of scan methods
- ⦿ 17 standard methods with the capability for further tests
- ⦿ Small footprint
- ⦿ Suitable for all levels of analysis and research



| DESCRIPTION | PRODUCT CODE |
|-------------|--------------|
| HM5000 | WT15-606 |

TECHNICAL SPECIFICATION

| | | |
|---|---|---|
| Detection Principle | ⦿ Stripping voltammetry | |
| Detectable Parameters (All under WHO Guidelines) | <ul style="list-style-type: none"> ⦿ Antimony (10ppb) ⦿ Arsenic III (1 ppb) ⦿ Arsenic (Total) (10 ppb) ⦿ Bismuth (10 ppb) ⦿ Cadmium (1 ppb) ⦿ Chromium (50 ppb) ⦿ Cobalt (20 ppb) ⦿ Copper (1 ppb) ⦿ Gold (10 ppb) | <ul style="list-style-type: none"> ⦿ Lead (1 ppb) ⦿ Manganese (1 ppb) ⦿ Mercury (1 ppb) ⦿ Nickel (10 ppb) ⦿ Selenium (5 ppb) ⦿ Thallium (1 ppb) ⦿ Tin (10 ppb) ⦿ Zinc (5 ppb) |
| Unit | <ul style="list-style-type: none"> ⦿ PC controlled bench mounted system ⦿ Analysis software (Metaware Benchtop) ⦿ Operating temperature -20°C to 70°C | |
| Dimensions mm | ⦿ 370 x 200 x 210 | |
| Weight Kg | ⦿ 3.5 | |
| Approvals | ⦿ CE marked | |

For a complete range of Metalyser® reagents, consumables and spares - see page 49

UV digestion made easy and portable

UV DIGESTER

When water samples have a high organic content, the value of the heavy metal content can be masked and harder to read. The UV digester breaks down this organic matter, releasing the heavy metals for analysis. Available in both a laboratory and a portable version for total flexibility.

- ⊙ Dual wavelength UV light
- ⊙ Quickly breaks down organic matter in a water sample
- ⊙ Integrated peristaltic pumping system
- ⊙ Built in timer with audible prompts
- ⊙ Sample volumes from 50 ml to 250 ml
- ⊙ Waterproof enclosure (IP67) on portable system



| DESCRIPTION | PRODUCT CODE |
|---------------------|--------------|
| UV digester | WT15-608 |
| Portable power pack | WT15-609 |

TECHNICAL SPECIFICATION

| | |
|----------------------|---|
| Sample sizes | ⊙ 50 ml – 250 ml |
| Safety | <ul style="list-style-type: none"> ⊙ UV inspection window ⊙ Safety interlock switch on lamp housing |
| Operation | <ul style="list-style-type: none"> ⊙ Integrated recirculating peristaltic pumping system ⊙ Built in timer ⊙ Audible alerts ⊙ Programmable digestion cycle ⊙ 185 nm/254 nm dual wavelength UV light |
| Case | <ul style="list-style-type: none"> ⊙ UV system completely in-built ⊙ Waterproof enclosure ⊙ Accompanying power pack (Portable version) ⊙ Push button battery status indicator on power pack |
| Dimensions mm | <ul style="list-style-type: none"> ⊙ Unit – 300 x 249 x 196 ⊙ Power pack – 300 x 249 x 196 |
| Weight Kg | <ul style="list-style-type: none"> ⊙ Unit – 4 ⊙ Power pack – 7.5 |
| Approvals | ⊙ IP67, CE marked |



Chemical oxygen demand determination

HTCOD

The HydroTest COD system (HTCOD) is a simple and flexible solution to measurement of this important environmental test targeting wastewater. The HTCOD includes a digestion block (requires mains electricity) to react your COD vessels, a photometer to read your samples and a complete set of reagents and accessories.

- ⊙ Photometer, reactor, consumables and accessories all included
- ⊙ Capable of measuring from 0 to 15,000 mg/L
- ⊙ Reactor also suitable for digestion of other products in the HydroTest range
- ⊙ Mercury free dichromate method



TECHNICAL SPECIFICATION

| | |
|----------------------|---|
| Photometer | <ul style="list-style-type: none"> ⊙ 3 Preinstalled COD programmes ⊙ Portable and suitable for one-handed operation ⊙ Chemically resistant housing ⊙ LED Light source ⊙ CE Conformity, IP68 ⊙ Data download via IR link or USB |
| Thermoreactor | <ul style="list-style-type: none"> ⊙ Microprocessor controlled ⊙ 24 x 16.2 mm hole aluminium block ⊙ Splashproof membrane keypad ⊙ Safety screen ⊙ +/- 1°C temperature accuracy ⊙ 220-240 V ⊙ Overheat protection ⊙ CE Conformity |
| Reagents | <ul style="list-style-type: none"> ⊙ 3 ranges <ul style="list-style-type: none"> ⊙ LR: 0 – 150 mg/L ⊙ MR: 0 – 1500 mg/L ⊙ HR: 0 – 15000 mg/L ⊙ Packs of 25 tests ⊙ Premeasured reagent ⊙ Mercury free dichromate method |

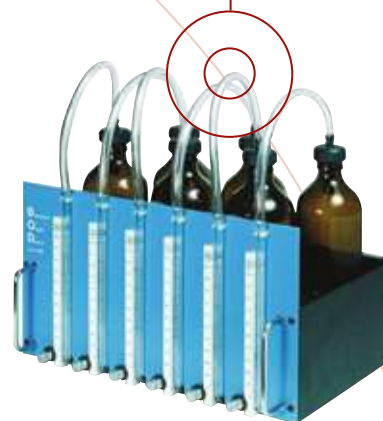
| DESCRIPTION | PART NUMBER |
|-------------------------------|-------------|
| HTCOD kit | WT13-900 |
| COMPONENTS | |
| HTCOD Photometer - no case | WT13-910 |
| HTCOD Thermoreactor - no case | WT13-920 |
| REAGENTS | |
| COD LR | WT11-130 |
| COD MR | WT11-132 |
| COD HR | WT11-134 |

Easy to use biological oxygen demand equipment

BOD

Biological Oxygen Demand (BOD) is the amount of oxygen used by micro-organisms when they degrade organic material in a water sample and is an indication of contamination.

- ⊙ Simple manometric method
- ⊙ Visual or Electronic systems
- ⊙ Simple handling



Standard BOD System

This conventional system comprises of 6 bottles and 6 mercury capillary tubes with a constant scale up to 1000 mg/L. Maintenance free system with programmable stirrer and direct BOD reading.

System supplied complete with 6 of:

- ⊙ 500 ml amber glass bottles
- ⊙ PVC caps
- ⊙ Capillary caps
- ⊙ KOH containers
- ⊙ Scales
- ⊙ 2 ml mercury bottles
- ⊙ 35 mm magnetic stirrer bars

| DESCRIPTION | PART NUMBER |
|------------------------------|-------------|
| Standard 6 bottle BOD system | WT15-700 |
| Standard 6 bottle spares kit | WT15-702 |





ELECTRONIC BOD SYSTEM

An innovative “Bottle Cap” design makes this electronic BOD measurement system extremely simple. Simply place 2 sodium hydroxide (NaOH) tablets into the special bung. Vapour in the air reacts with the tablets to create an increase in pressure, which is then measured by the electronic cap and converted automatically to a mg/L reading.

- Completely mercury free
- Microprocessor controlled
- Inductive stirring mechanism
- 2 sizes of system to suit throughput (6 and 10)



| | |
|-------------------------------------|---|
| BOD Sensor System 6 | Complete package for 6 tests with stirring station, BOD sensors, amber glass bottles, alkali holders and stirring bars |
| BOD Sensor System 6 Wireless | As the Sensor System 6 but with an additional wireless system for instant PC data transfer |
| BOD Sensor System 10 | Complete package for 10 tests with stirring station, BOD sensors, amber glass bottles, alkali holders and stirring bars |

| DESCRIPTION | PART NUMBER |
|---------------------------------|-------------|
| BOD Sensor System 6 | WT15-706 |
| BOD Sensor System 10 | WT15-708 |
| BOD Sensor System 6 (Wireless) | WT15-710 |
| BOD Control Tablets (pack of 8) | WT15-712 |

| SPECIFICATION | STANDARD SENSOR SYSTEM | WIRELESS SENSOR SYSTEM |
|-----------------------|-----------------------------------|------------------------|
| Measurement Method | Electronic Pressure Probe | |
| Electronic Protection | IP54 | |
| Display | 3 Digital LED Display | |
| Power Supply | 2 x Lithium batteries | |
| Safety Class | 3IEC 1010 | |
| Bottle Capacity | 500 ml | |
| Power | 220-240 V, 50-60 Hz | |
| Weight Kg | 2.3 | |
| Dimensions mm | 350 x 300 x 150 | 270 x 190 x 300 |
| Data | 5 BOD Values at 24 hour intervals | |
| Reading Value | mg/L - directly on display | |
| Data Transfer | Manually | Automatic (wireless) |



BOD INCUBATORS

A standard BOD test requires a 5 day incubation at a constant 20 degrees. To achieve this constant and precise temperature, specially designed incubators are available to accommodate your BOD systems exactly.

The incubators are air circulated to ensure no hot or cold spots, which could affect your results.

| | Dedicated 120 L | Controllable 120 L | Controllable 215 L | Controllable 120 L | Controllable 215 L |
|--|------------------------|------------------------|------------------------|------------------------|------------------------|
| Temperature setting | 20°C | 3°C to 50°C | 3°C to 50°C | 3°C to 50°C | 3°C to 50°C |
| Temperature homogeneity | | +/- 0.5°C | +/- 0.5°C | +/- 0.5°C | +/- 0.5°C |
| Temp stability | | +/- 0.5°C | +/- 0.5°C | +/- 0.5°C | +/- 0.5°C |
| Internal power sockets | Yes | Yes | Yes | Yes | Yes |
| No. of BOD Sensor 6 units that can fit | 3 | 3 | 5 | 2 | 4 |
| Internal transparent door | No | No | No | Yes | Yes |
| Power | 220-240 V /50-60 Hz | 220-240 V /50-60 Hz | 220-240 V /50-60 Hz | 220-240 V /50-60 Hz | 220-240 V /50-60 Hz |

These BOD incubators have been purpose built for the processing of manometric BOD systems, allowing both the System6 and System10 units to be incubated easily. Controllable units can also be used for any other application requiring stable and accurate temperature control throughout the chamber.

| DESCRIPTION | PART NUMBER |
|--------------------------------------|-------------|
| Dedicated 120 L | WT15-718 |
| Controllable 120 L | WT15-720 |
| Controllable 215 L | WT15-722 |
| Controllable 120 L, transparent door | WT15-724 |
| Controllable 215 L, transparent door | WT15-726 |





Flocculation both in the field and in the lab

PORTABLE FLOCCULATORS

Able to run on mains power, car socket or 12 V battery, the portable flocculator was developed for optimum use in the field. Perfect for the optimisation of coagulation and polyelectrolyte via a basic jar test.

- Accepts up to 6 samples
- Multiple power supply capability
- Non-slip base
- Completely portable



TECHNICAL SPECIFICATION

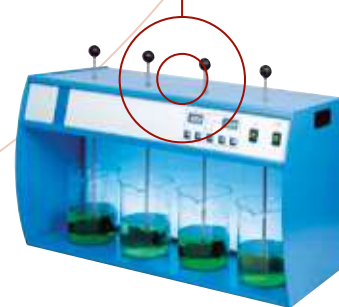
| | |
|-------------------------|--|
| Number of Stirring Rods | 4 |
| Speed Selector | Multi-selector (settable speed for each rod) |
| Speed Settings | 5 speeds: 20, 40, 50, 100, 200 rpm |
| Power Supply | 100 – 240 V / 50 – 60 Hz or 12 V Battery |
| Weight Kg | 4.8 |
| Dimension mm | 250 x 320 x 250 |

| DESCRIPTION | PART NUMBER |
|-----------------------|-------------|
| Portable Flocculator | WT15-800 |
| Carrying Case | WT15-802 |
| Glass Beaker 100 ml | WT15-804 |
| Plastic Beaker 100 ml | WT15-806 |

BENCHTOP FLOCCULATORS

Specially designed for repeatable conditions between samples and from run to run. A digital display clearly indicates the speed of the rotational stainless steel paddles, which can be varied from 10 to 300 rpm. The digital timer can be set to count down from 99 minutes or 1 to 99 hours.

- Accepts six samples
- Built in illumination for easy viewing of samples
- Two pre-set programs



| SPECIFICATION | 4 PLACE SYSTEM | 6 PLACE SYSTEM |
|---------------|-----------------|-----------------|
| Dimensions mm | 645 x 347 x 260 | 935 x 347 x 260 |
| Weight Kg | 13 | 17 |
| Power W | 11 | 19 |

| DESCRIPTION | PART NUMBER |
|--|-------------|
| 4 position Flocculator set speed digital display | WT15-808 |
| 6 position Flocculator set speed digital display | WT15-810 |
| Glass Beaker 100 ml | WT15-804 |
| Plastic Beaker 100 ml | WT15-806 |



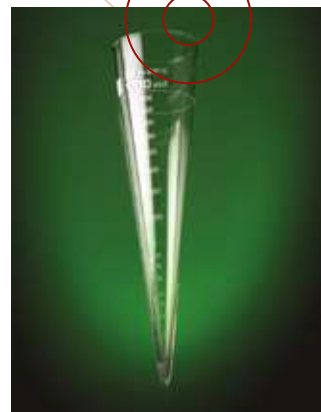
Simple visual sediment analysis

SEDIMENTATION

Sedimentation analysis is a simple method to identify the amount of suspended solids that will settle out of a specific volume of liquid sample.

PLASTIC IMHOFF SEDIMENTATION CONE

- ⊙ Transparent cone, made from tough styrene acrylonitrile
- ⊙ With moulded graduations
- ⊙ Lower part is graduated to 2 ml x 0.1, 10 ml x 0.5, 40 ml x 1, 100 ml x 50



| DESCRIPTION | PART NUMBER |
|--|-------------|
| Imhoff sedimentation cone, plastic, 100 ml | WT15-830 |

GLASS IMHOFF SEDIMENTATION CONE

- ⊙ For determining the amount of sedimentation in sewage or industrial waste
- ⊙ Graduated up to 40 ml and with capacity mark at 100 ml
- ⊙ Manufactured from borosilicate glass

| DESCRIPTION | PART NUMBER |
|--|-------------|
| Imhoff sedimentation cone, glass, 100 ml | WT15-832 |

IMHOFF CONE STANDS

- ⊙ Acrylic stands for mounting Imhoff cones
- ⊙ All stands have a locating recess in the base

| DESCRIPTION | PART NUMBER |
|-------------------------------|-------------|
| Cylindrical stand for 1 cone | WT15-834 |
| Rectangular stand for 2 cones | WT15-836 |
| Rectangular stand for 3 cones | WT15-838 |





Hydrocarbons in water

PORTABLE HYDROCARBON ANALYSER

This hydrocarbon analyser is designed to measure ppm levels of petroleum hydrocarbons in water and meet field monitoring requirements giving fast and accurate quantitative data.

Typical applications include site assessment, storm/waste water monitoring, leak detection, well plume monitoring, spill control and remediation.

Supplied complete with sets of 2 calibration solutions, charger, interface cable and an air/water/light tight case.

- Detects petroleum hydrocarbons directly in water
- Provides in-situ real time information
- Pays for itself with lower analysis costs
- Reduces sample collection
- Logs data for 100 samples
- Easy to calibrate
- Serial output
- Menu driven software



TECHNICAL SPECIFICATION

| | VAPOUR | WATER |
|-------------------------|--------------------------------------|----------------------|
| Range | 0 – 20,000 ppm as TPH | 0 – 2,000 ppm as TPH |
| Lower limit | <10 ppm as Xylene | <0.1 ppm as Xylene |
| Hydrocarbons detected | C6 and higher MW | C6 and higher MW |
| Accuracy | +/- 15% of reading | +/- 10% of reading |
| Response time (initial) | <5 seconds | <5 seconds |
| Response time (to 95%) | <1 minute | <5 minutes |
| Trend correlation | 95% | 98% |
| Display | Backlit LCD | |
| Memory | Data from 100 samples | |
| Battery life | 8 hours normal operation | |
| Charge | 12 hour charge period, AC or vehicle | |
| Dimensions mm | 250x300x180 | |
| Weight Kg | 4.5 | |
| Cable length mtr | 30 | |

| DESCRIPTION | PART NUMBER |
|--|-------------|
| Portable hydrocarbon analyser | WT15-940 |
| Soil headspace jar | WT15-842 |
| Pre-mixed calibration standards (20 ml) 25ppm solution | WT15-852 |
| Pre-mixed calibration standards (20 ml) 50ppm solution | WT15-854 |



ACID MINING TEST KIT

This chemical test kit has been formulated for the acid mining industry to measure water which can be both acidic and alkaline, depending on metal type. The discharge water can also contain metals such as iron. The run-off water will eventually find its way to lakes and rivers, it is important to test it to make sure it doesn't pollute the environment and water reservoirs.



- ⦿ Tests for alkalinity, acidity, pH and iron
- ⦿ Less time consuming
- ⦿ Faster and more accurate results

| DESCRIPTION | PART NUMBER |
|--|-------------|
| Acid Mining Test Kit (approx. 100 tests) | WT15-844 |

ECLOX – WATER PURITY TESTING KIT

Used by the armed forces throughout the world, this kit is now available for water and sanitation engineers to give a rapid indication of the toxicity present at the water source. The Eclox includes a luminometer providing identification of the toxicity of a water sample.



- ⦿ Rapid test (4 minutes)
- ⦿ Pollution incident tracking
- ⦿ Emergency pollution response kit
- ⦿ Detects chemicals from urine, faeces, phenols, amines, heavy metals, cyanide and many other toxic substances

TECHNICAL SPECIFICATION

| | |
|----------------------|--|
| Data Logging | ⦿ Up to 60 tests recorded in full detail |
| Battery Life | ⦿ Greater than 250 tests |
| Batteries | ⦿ 4 x AA |
| Temperature | ⦿ -20°C to 55°C |
| Weight Kg | ⦿ 6.5 fully loaded |
| Dimensions mm | ⦿ 489 x 400 x 200 |

| DESCRIPTION | PART NUMBER |
|--|-------------|
| Eclox Toxicity Kit Supplied with luminometer, micropipettes, tips sampling bottles, set of 7 chemiluminescence reagents and pesticide strips | WT15-860 |
| Set of 7 chemiluminescence reagents | WT15-862 |
| Pack of 25 pesticide strips | WT15-864 |



Oil in water

HAND HELD OIL IN WATER MONITOR

Light and easy to use, this low cost instrument measures crude oil and condensates where it comes in contact with water.

This zero solvent method eliminates health and safety hazards of transporting, handling and disposing of solvents. The method removes errors associated with precision liquid measurements during the analysis process.

- ⊙ Measurement range from below 1 ppm to over 1,000 ppm without dilution
- ⊙ Measures dispersed (free) oil independent of water soluble organics (WSO)
- ⊙ Unaffected by suspended solids
- ⊙ Performance independent of process temperature
- ⊙ Precision sample volume not required
- ⊙ No acid or solvents required
- ⊙ Complete analysis in less than 10 minutes
- ⊙ Measures WSO's at pH < 2
- ⊙ Measurements per battery change: > 1,000
- ⊙ Meets IP67, dust-proof, waterproof, non-metallic case



| DESCRIPTION | PART NUMBER |
|--------------------------------|-------------|
| Hand held oil in water monitor | WT15-868 |

OIL/WATER INTERFACE METER

The Oil/Water interface probe is used to determine the thickness of hydrocarbon, in Light non-aqueous phase (LNAP) and dense non-aqueous phase (DNAP) in groundwater, and to also detect the presence of water in storage tanks.

As the probe is lowered into the liquid, a single audible buzz is heard and a green light shows. Once the probe reaches the water at the oil/water interface, a two-tone buzzer is heard and both green and red lamps show.

- ⊙ Slim-line 20 mm probe
- ⊙ Robust construction
- ⊙ High accuracy
- ⊙ Compact design



| DESCRIPTION | PART NUMBER |
|---------------------------------|-------------|
| Oil/Water interface meter 30 m | WT15-886 |
| Oil/Water interface meter 50 m | WT15-888 |
| Oil/Water interface meter 100 m | WT15-890 |
| Oil/Water interface meter 200 m | WT15-892 |



OIL CONTENT METER

The oil content monitor is an automated portable unit for monitoring oil content in fresh water and saltwater. The one-touch monitoring process is fully automated, from sample extraction to analysis and sample expulsion.

The unit utilises an extraction solvent to ensure superior oil particle stability and infrared absorptiometry for sample analysis. Using 0 mg/L – 200 mg/L dynamic ranging, the unit is capable of analysing both high and low concentrations.

A separate dedicated solvent reclaimer can be purchased and will filter out extraction solvent. This uses no electricity and greatly reduces test costs.



TECHNICAL SPECIFICATION

| | |
|--------------------------------|--|
| Measurement Principle | ⊙ Solvent extraction, NDIR analysis (infrared spectroscopy) |
| Measurement Range | ⊙ 0 mg/L ~ 200 mg/L dynamic ranging |
| Resolution | ⊙ 0 to 99.9 mg/L; 0.1 mg/L ⊙ 100 to 200 mg/L; 1 mg/L |
| Repeatability | ⊙ 0 to 9.9 mg/L; +/- 0.2 mg/L +/- 1 digit ⊙ 10.0 to 99.9 mg/L; +/- 2 mg/L +/-1 digit ⊙ 100 to 200 mg/L; +/- 4 mg/L +/- 1 digit |
| Measurement | ⊙ Manually controlled |
| Calibration | ⊙ One touch calibration after the calibration standard is introduced to the instrument |
| Extraction Solvent | ⊙ S-316 solvent |
| Sample / Solvent Volume | ⊙ 20 ml, ratio of sample to solvent is 2:1 |
| Extraction Method | ⊙ Built-in extractor for oily water samples |
| Display | ⊙ Measured value; 3 digits LCD with backlight message; ⊙ Character display LCD with backlight (16 x 2 characters) |
| Functions | ⊙ 300 data point memory, self-diagnostics, stable type display, interactive operation, calendar clock |
| Output | ⊙ USB flash drive |
| Ambient Temperature | ⊙ 0°C to 40°C |
| Power | ⊙ 100 to 120 V AC +/- 10%, 50/60 Hz 80 VA ⊙ 200 TO 240 V AC +/- 10%, 50/60 Hz 120 VA |
| Dimensions mm | ⊙ 200 x 315 x 342 |
| Weight Kg | ⊙ 7 |

| DESCRIPTION | PART NUMBER |
|---------------------|-------------|
| Oil content monitor | WT15-870 |
| Extraction solvent | WT15-872 |
| Solvent reclaimer | WT15-874 |



Total Kjeldahl Nitrogen (TKN) determination

KJELDAHL DIGESTION

Named after the Danish chemist who developed the method, Kjeldahl digestion is used to determine the levels of nitrates and protein in many substrates, including wastewater.

These instruments offer multiple work programmes for the simultaneous digestion of 6 or 20 samples in tubes of varying dimensions, dependant on the unit used.

- ⦿ Highly accurate and precise +/- 0.5°C
- ⦿ Heat ramp speed of 400 degrees in 30 minutes
- ⦿ RS232 Interface
- ⦿ Microprocessor controlled heat calibration
- ⦿ 6 different languages
- ⦿ 2 different units to suit your application



| PART NUMBER | WT15-750 | WT15-752 |
|------------------------------------|--------------------------------|-----------------|
| No. of samples | 6 | 20 |
| Temperature range | Ambient to 450°C | |
| Construction | Epoxy painted stainless steel | |
| Programmes | 20, with 4 ramps per programme | |
| Durations | 1 – 999 minutes | |
| Power | 230 V 50-60 Hz | |
| Wattage | 1100 W | 2300 W |
| Weight Kg | 10 | 24 |
| Dimensions mm | 293 x 152 x 339 | 393 x 152 x 446 |
| OPERATING ACCESSORIES | | |
| Suction Cap | WT15-758 | WT15-764 |
| Support System | WT15-760 | WT15-766 |
| Glassware handle with heat shields | WT15-762 | WT15-768 |
| Test Tubes 42x300 mm | WT15-754 | |



RECIRCULATING WATER PUMP

Designed to work with the TKN digester, this pump has 2 different timed modes ensuring optimum aspiration of fumes. It is perfect for use in areas where there is a lack of mains water pressure, or areas where high water consumption is not encouraged.

- Recirculates water using far less than conventional aspiration pumps
- Avoids gas pollution in the atmosphere by TKN digestion systems
- High flow rate (35 L/min)
- Independent from mains water supply



| DESCRIPTION | PART NUMBER |
|--------------------------|-------------|
| Recirculating water pump | WT15-768 |

SCRUBBER

Used in conjunction with the recirculating water pump, neutralises corrosive and toxic fumes developing from reactions or other processes. It consists of both condensation and neutralisation stages. A third optional stage is also available for processes producing high fume levels.

- Highly efficient neutralisation
- Safe and practical
- Simple condensate disposal
- Easy replacement of neutralising solution



TECHNICAL SPECIFICATION

| | |
|---------------|---|
| Construction | <ul style="list-style-type: none"> Epoxy painted stainless steel |
| Weight Kg | <ul style="list-style-type: none"> 3.5 |
| Dimensions mm | <ul style="list-style-type: none"> 300 x 500 x 190 |

| DESCRIPTION | PART NUMBER |
|-------------------------------------|-------------|
| Scrubber unit | WT15-770 |
| Activated carbon filter | WT15-772 |
| Refill for carbon pack (pack of 10) | WT15-774 |

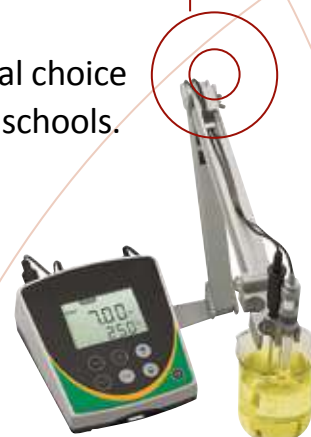


Benchtop water quality meters

PH/°C/mV BENCH METER

Economical, user-friendly and accurate, the pH 700 is your ideal choice for routine applications in laboratories, production plants and schools.

- Large, easy-to-read display
- Ready indicator lets you know when readings are stable
- 5-point calibration with auto-buffer recognition
- Non-volatile memory holds up to 100 data points
- Integral electrode holder



TECHNICAL SPECIFICATION

| PARAMETER | PH | ORP | TEMPERATURE |
|---------------|-------------------|--|--|
| Range | -2.00 to 16.00 pH | +/- 2000 mV | 0.0°C to 100.0°C |
| Rel. mV Range | - | +/- 2000 mV | - |
| Resolution | 0.01 pH | 0.1 mV (+/- 199.9 mV) / 1 mV (beyond) | 0.1°C |
| Accuracy | +/- 0.01 pH | +/-0.2 mV (+/- 199.9 mV) +/- 2 mV (beyond) | +/-0.3°C |
| Calibration | Up to 5 | - | Offset in 0.1 increments; offset range: +/-5.0°C |

| DESCRIPTION | PART NUMBER |
|-------------------------------|-------------|
| pH/°C/mV bench meter | WT16-114 |
| Replacement electrode for pH | WT16-108 |
| Replacement temperature probe | WT16-124 |

ION/PH/°C BENCH METER

An intuitive, self-diagnostic and flexible instrument with advance set-up options for user-customisation.

View pH, Ion or Redox reading together with temperature, electrode status, calibration points, date and time all at once.

- Up to 6-point push button calibration with auto-buffer recognition
- Quick, easy electrode diagnosis with pH slope and offset display
- Non-volatile memory holds up to 500 data points – time and date stamped
- Bi-directional RS232 for easy data transfer to computer
- Auto-logging function for continuous monitoring



| DESCRIPTION | PART NUMBER |
|---------------------------|-------------|
| Ion/pH/°C bench meter | WT16-120 |
| Replacement Ion electrode | WT16-122 |
| Replacement Temp probe | WT16-124 |



PH/ORP/ION/CONDUCTIVITY/TDS/SALINITY/RESISTIVITY/°C BENCH METER

All-in-one solution for multi-parameter research work in the lab. Reliable, accurate and intuitive with user-friendly functions. The meter comes with a multi-data screen that includes temperature, electrode status, calibration points, ORP, ION, conductivity, TDS, salinity, or resistivity.

- Choose auto-calibration with pre-set values for quick easy calibration, or manual multi-point calibration for greater accuracy
- Easy standardisation with auto-standardisation feature – detect the exact cell constant value of your electrodes with the press of a button
- Up to 6-point calibration with auto-buffer recognition
- Includes high performance 4-cell Conductivity probe
- Quick, easy electrode diagnosis with the effective cell constants display
- Non-volatile memory holds up to 500 data points – time and date stamped for GLP compliance
- Auto-logging function for continuous monitoring
- Limit alarm alerts when reading falls out of range
- Automatic temperature control



| PARAMETER | PH | ORP | ION | CONDUCTIVITY | TDS | SALINITY | RESISTIVITY |
|--------------------|-----------------------------|--------------|--|---------------------------|---|--|---|
| Range | -2.000 to 20.000 pH | +/-2000.0 mV | 0.001 to 19999 ppm (+/-2000 mV) | S to 500.0 mS | 0.050 ppm to 500 ppt (@TDS factor 1.00) | 0.0 to 80.0 ppt | 2.000 Ohm to 20.0 MOhm |
| Rel. mV Range | | +/-2000.0 mV | | | | | |
| Resolution | 0.1 / 0.01 / 0.001 pH | 0.1 mV | 2 or 3 digits | S ; 0.001 / 0.01 / 0.1 mS | 0.01 / 0.1ppm; 0.001 / 0.01 ppt | 0.01 / 0.1 ppm; 0.001 / 0.01 / 0.1 ppt | 0.01 / 0.1 Ohm; 0.001 / 0.1 KOhm; 0.01 MOhm |
| Accuracy | +/-0.002 pH + 1LSD | +/-0.2 | 0.5% full scale (monovalent); 1% full scale (divalent) | +/- 5% full scale | +/-1% full scale | +/-1% full scale | +/-1% full scale |
| Calibration points | Up to 6 pre-set or 5 custom | | 2 to 8 | Up to 5 | Up to 5 | | |

| DESCRIPTION | PART NUMBER |
|--|-------------|
| pH/ORP/ION/Conductivity/TDS/Salinity/Resistivity Bench meter | WT16-224 |
| Replacement ION/pH electrode | WT16-122 |
| 4 cell conductivity/ATC electrode, graphite sensor, epoxy body | WT16-226 |



BENCHTOP TURBIDITY METER

A highly accurate turbidity meter especially designed for water quality measurements. Meets and exceeds the requirements of USEPA and Standard Methods. The instrument is based on a state-of-the-art optical system, which guarantees accurate results, long term stability and minimises stray light and colour inferences. It also compensates for variations in intensity of LED, limiting the need for frequent calibration.



- ⦿ Multi-Range through 0-4000 NTU
- ⦿ 2, 3, 4 or 5 point calibration with supplied standards
- ⦿ Good laboratory practice (GLP) function for traceability of calibration conditions
- ⦿ User friendly graphical LCD display
- ⦿ Log up to 200 records

| | |
|----------------------------|--|
| Range | 0.00 to 9.99; 10.0 to 99.9; 100 to 4000 NTU |
| Resolution | 0.01; 0.1; 1 NTU |
| Range Selection | Automatica |
| Accuracy | +/-2% of reading plus 0.02 NTU +/-5% of reading above 1000 NTU |
| Repeatability | +/-1% of reading or 0.02 NTU whichever is greater |
| Stray Light | < 0.02 NTU |
| Light Detection | Silicon Photocell |
| Method | Nephelometric method (90) |
| Measuring Mode | Normal, Average, Continuous |
| Turbidity Standards | <0.1, 15, 100, 750 and 2000 NTU |
| Calibration | 2, 3, 4 or 5 point calibration |
| Light Source | Tungsten filament lamp |
| Lamp life | Greater than 100,000 readings |
| Display | 40 x 70 mm graphic LCD (64 x 128 pixels) with backlight |
| Logging Memory | 200 records |
| Serial Interface | USB |
| Power Supply | 230 V / 50 Hz or 115 V / 60 Hz 20 W |
| Auto Shut-off | After 15 minutes of non-use |

| DESCRIPTION | PART NUMBER |
|---|-------------|
| Bench Turbidity Meter supplied with 5 sample cuvettes and caps, calibration cuvettes, silicone oil, cuvette wipes, power adapter and instruction manual | WT16-164 |
| Calibration set for turbidimeter | WT16-166 |
| Solution for cleaning cuvettes | WT16-168 |
| Silicon oil (15 ml) | WT16-170 |
| Tissue for wiping cuvettes | WT16-172 |
| Glass cuvettes | WT16-174 |
| Caps for cuvettes | WT16-176 |
| Windows® compatible Software | WT16-178 |



BENCH TURBIDITY METER

WAGTECH PROJECTS





Water velocity measurement

CURRENT FLOW MONITORING

Flow is the total volume of a fluid that flows past a fixed point in a river or stream over time. It is comparable to the speed at which a volume of fluid travels. Flow can affect water chemistry and also physical changes both upstream and downstream.

FLOW MASTER

The flow master is a highly accurate low cost water velocity instrument for measuring flows in open flow channels and partially filled pipes.

The instrument has been extensively used by water professionals for over 30 years. The Flow Master consists of the protected Turbo Prop positive displacement sensor, coupled with the expandable probe handle, to the digital display. The instrument is ideal for storm water run-off studies, sewer flow measurements, measuring flows in rivers and streams, and monitoring velocity in ditches and canals.

- ⊙ Accurate and low cost
- ⊙ Lightweight and rugged
- ⊙ Debris shedding turbo prop
- ⊙ Rain proof digital readout
- ⊙ Padded carry case
- ⊙ Displays true average velocity instantaneously



TECHNICAL SPECIFICATION

| | |
|---------------------------|--|
| Range, m/sec | ⊙ 0.1-0.61 |
| Accuracy, m/sec | ⊙ 0.03 |
| Operating Temperature, °C | ⊙ -20°C to 70°C |
| Sensor Type | ⊙ Turbo-prop propeller with magnetic pick up |
| Data logger | ⊙ 30 sets, min, max, avg |
| Weight Kg | ⊙ 4 |
| Power | ⊙ Internal batteries – approx. 5 year life |

| DESCRIPTION | PART NUMBER |
|-----------------------------------|-------------|
| Flow Master 1.0-2.0 m Pole length | WT26-102 |
| Flow Master 1.5-4.5 m Pole length | WT26-104 |



ELECTROMAGNETIC FLOW METERS

This small electromagnetic flow meter has been designed specifically for use in open channels where fouling by weed or sewage can be a problem.

A high precision instrument which can be relied upon to give accurate readings ($\pm 0.5\%$ of reading plus zero stability) over a wide flow range (± 5 m/sec) in only 5cm of water. The control display unit provides a choice of averaging modes, standard deviation of the data and a logging facility of recording up to 999 averaged readings.

Two sensor types are available to suit different application requirements. One for measuring speeds in water depths of 15 cm or more and one for 5 cm or more. Both offer excellent durability, reliable accurate data and are suitable for use in clean water and dirty or difficult environments. Both instruments are calibrated to NAMAS traceable standards for speeds up to 1 m/s.

Supplied with:

- ⦿ 3 m cable
- ⦿ Control display unit (with logging facility),
- ⦿ Wading rod set c/w 3 x 0.5 graduated rods
- ⦿ Base
- ⦿ Direction knob
- ⦿ Operation manual
- ⦿ Complete large carrying case



TECHNICAL SPECIFICATION

| | CYLINDRICAL TYPE | FLAT TYPE |
|-------------------------|---|---|
| Range | -5 m/s to 5 m/s | -5 m/s to 5m/s |
| Accuracy | $\pm 0.5\%$ of reading plus 5 mm/s | $\pm 0.5\%$ of reading plus 5 mm/s |
| Zero Drift | ± 0.004 m/s below 0.15 m/s | < 5 mm/s |
| Sensing Volume | Sphere of approx 12 cm diameter around sensor | Cylinder of approx 20 mm \varnothing x 10 mm high |
| Minimum Depth | 15 cm | 5 cm |
| DISPLAY UNIT | | |
| Dimensions mm/Weight Kg | 250 x 160 x 100/2 | |
| Environmental | Sealed to IP67 | |
| Power | 8 x alkaline C cells, lasting for up 37 hours | |
| WADING SET | | |
| Dimensions mm/Weight Kg | 620 x 420 x 340/9 | |

| DESCRIPTION | PART NUMBER |
|---|-------------|
| Electromagnetic Flowmeter wading set, single axis sensor (Water 15 cm>) | WT26-114 |
| Electromagnetic Flowmeter wading set, single axis sensor (Water 5 cm>) | WT26-116 |



Depth and level measurement

LEVEL

Water level monitoring forms the basis of a hydrological soil examination, giving crucial hints as to the porosity of soil and the direction of the groundwater.

STAFF GAUGE

A simple fixed method of level measurement, the staff gauge clearly shows a numerical readout of at the surface of the water.

- ⊙ Easy to read
- ⊙ Long lifespan
- ⊙ No moving parts
- ⊙ No training required



| DESCRIPTION | PART NUMBER |
|---------------------------|-------------|
| Staff Gauge (uninstalled) | WT26-117 |

PORTABLE ECHO SOUNDER

The portable echo sounder is a low cost single beam water depth instrument, which is used by surveyors engaged in river, lake and inshore hydrographic surveying.

The unit is sold as a complete package and includes transducer, serial leads internal battery charger and a heavy duty carrying case.

- ⊙ Measures water depths down to 75 m
- ⊙ Lightweight and easy to use in a small boat
- ⊙ Internal memory stores data for processing
- ⊙ Graphic LCD display shows depth data continuously
- ⊙ Can be connected to separate GPS equipment if required



TECHNICAL SPECIFICATION

| | |
|---------------------------------|-------------------------------------|
| Transducer Frequency | ⊙ 200 KHz |
| Beam Spread | ⊙ 8-10 degrees |
| Depth Range | ⊙ 0.30 m to 75 m (software limited) |
| Accuracy | ⊙ +/-0.025 m (RMS) |
| Battery Life | ⊙ 8-12 hours between charges |
| Standby Battery Life | ⊙ 10,000 hours |
| Temperature Range | ⊙ 0°C to 45°C |
| Overall Dimensions mm/Weight Kg | ⊙ 100 x 220 x 45/0.75 |

| DESCRIPTION | PART NUMBER |
|--|-------------|
| Echo sounder with transom mount active transducer, software, serial leads, charger and rugged carry case | WT26-118 |



WATER LEVEL MONITOR

The water level monitor consists of a data logger with a submersible pressure transducer for remote monitoring and recording of water level, flow and pressure data.

Constructed with an acrylic coat to protect the electronics from condensation. This water testing instrument is easy to use and install and can be used in various applications such as groundwater monitoring, irrigation canals, wetlands, infiltration/inflow studies and many more.

- Water level logger records over 81,000 readings
- Measures water depth down to 150 m
- Accurate water level measurements ranging from 1 m to 76 m
- Automatic barometric pressure and temperature compensation



TECHNICAL SPECIFICATION

| DATA LOGGER | |
|------------------|---|
| Memory | Non-volatile flash memory |
| Battery Life | Up to 1 year |
| Resolution | 12 bit |
| Humidity | 0-95% non-condensing |
| Storage Capacity | 81,759 time and date stamped data points |
| Enclosure mm | 48 x 292, weather resistant cylindrical enclosure |
| Communication | USB |

| DESCRIPTION | PART NUMBER |
|--|-------------|
| Water Level Monitor: Supplied with data logger, housed in a Weatherproof cylindrical enclosure, pressure sensor, PC software, 7.5 m of cable and 9 Vdc battery | WT26-120 |
| Extra cable lengths per metre, up to 150 metres | WT26-122 |

| PRESSURE TRANSDUCER | |
|---------------------|--|
| Accuracy | +/-0.1% of full scale at constant temperature, +/-0.2% |
| Material | Stainless steel housing and micro screen |
| CABLE | |
| Length | Standard 7.5 (other lengths available up to 150 m) |





WATER LEVEL LOGGER KITS

These water level data loggers offer high accuracy at an affordable price, with no cumbersome vent tubes or desiccants to maintain. They are ideal for recording water levels and temperatures in shallow wells, streams, lakes and freshwater wetlands.

- Available in 3 depth ranges
- No-vent-tube design for easy and reliable deployment
- Durable ceramic pressure sensor for reliable performance
- Memory: 21,700 combined pressure and temperature measurements
- Sample rate: 1 second to 18 hours, fixed or multiple-rate up to 8 user-defined sampling intervals
- 40 x 25 x 5 cm in case, weighing 3 Kilos
- Suitable for deployment in water or air; case materials resistant to fuels, solvents and lubricants
- Includes calibration certificate of accuracy in accordance with NIST-traceable standards at three pressure points distributed throughout the range



| Range | 0-4 m | 0-9 m | 0-30 m |
|--|---------------|---------------|---------------|
| Factory Calibrated Range (0°C to 40°C) | 69 to 145 kPa | 69 to 207 kPa | 69 to 400 kPa |
| Water level Accuracy (Typical Error) | +/-0.3 cm | +/-0.5 cm | +/-1.5 cm |

TECHNICAL SPECIFICATION

| | | | |
|-----------------------|--------------------|--------------------|----------------------|
| Resolution | 0.14 cm | 0.21 cm | 0.41 cm |
| Burst Pressure | 310 kPa 18 m depth | 310 kPa 18 m depth | 500 kPa 40.8 m depth |

WATERPROOF SHUTTLE

Can be used either as a data shuffle or an optic USB Base Station and supports all Optic USB loggers.

- Outdoor or underwater data readout
- Convenient direct USB connection to host computer
- Waterproof to 20 m
- Checks and indicates its own battery status



TECHNICAL SPECIFICATION

| | |
|------------------------------------|-------------------------------------|
| 4 MB non-volatile memory | Up to 63 loggers |
| Operating temperature range | 0°C to 50°C |
| Battery Life | 1-year (typical) – user-replaceable |
| Software | Pro software |
| Dimensions mm/Weight g | 152 x 48/150 |



BASE STATION

Provides fast optical infrared (IR) communications for easy launch and read out of all pendant loggers.

- Connects via USB cable host computer while couple attaches the logger to the base station
- 180 cm cable length
- Logger offload speed – 30 seconds when full



LEVEL LOGGER KIT

| Part Number | WT26-124 | WT26-126 | WT26-128 |
|--------------|---------------------|----------------------|---------------------|
| Logger Range | 1 x logger 0-4 m | 2 x loggers 0-4 m | 1 x logger 0-9 m |
| Comms | Base station | Shuttle | Base station |
| Carry case | Not included | Included | Not included |

| Part Number | WT26-130 | WT26-132 | WT26-134 |
|--------------|--------------------------|----------------------|---------------------------|
| Logger Range | 1 x 0-4 m + 1 x 0-9 m | 1 x logger 0-30 m | 1 x 0-4 m + 1 x 0-30 m |
| Comms | Shuttle | Base station | Shuttle |
| Carry case | Included | Not included | Included |



DIPMETER

Robust, light and convenient in use. All fitted with strong tape marked in metres and centimetres wound onto a plastic coated metal frame. All have a shrouded stainless steel probe (15 mm diameter and 175 mm length).

- Audible signal on contact with water surface
- Variable sensitivity
- From 20-200 m length



| DESCRIPTION | PART NUMBER |
|-------------|-------------|
| 20 m tape | WT26-136 |
| 50 m tape | WT26-138 |
| 100 m tape | WT26-140 |
| 150 m tape | WT26-142 |
| 200 m tape | WT26-144 |



RADAR LEVEL SENSOR

The RLS is a radar level sensor for non-contact water level measurement at surface water locations. The sensor uses impulse radar technology to determine the water level. This energy-efficient, non-contact measurement method means the unit operates with no effect from temperature gradients, water pollution or sediment load and ensures exact measurements.

- ⊙ Extremely low energy consumption
- ⊙ Large power supply range
- ⊙ No requirement for mains power
- ⊙ Flat antenna construction
- ⊙ Standardised interfaces
- ⊙ Extremely flexible
- ⊙ Easily connected to loggers or remote transmission systems
- ⊙ Impulse radar technology
- ⊙ No effect from temperature gradients, pollution or sediment load

With a measurement range of up to a maximum of 35 m the RLS also allows the measurement of large ranges. It is directly above the water surface to be measured, e.g. on bridges or auxiliary constructions. It's solid, relatively light and water-proof housing is easy to install. There is no requirement for complex construction, such as stilling wells or float shafts, as the RLS determines the water level measurements in a measurement cycle that compensates for wave or other rapid water level movements



TECHNICAL SPECIFICATION

| | |
|---------------------------------|-------------------------------------|
| Measuring range | ⊙ 0.4-35 m |
| Accuracy (SDI-12) | ⊙ 0.4-2.0 m: ±10 mm |
| | ⊙ 2.0-30 m: ±3 mm |
| | ⊙ 30-35 m: ±10 mm |
| Average temperature coefficient | ⊙ 0.01 % full scale/10 K |
| Measuring time | ⊙ 20 seconds |
| Beam angle of antenna | ⊙ 12° |
| Transmit frequency | ⊙ CE Version: 24 GHz |
| | ⊙ FCC Version: 25 GHz |
| Power supply | ⊙ 5.4-28 V DC, typically 12/24 V DC |
| Dimensions mm | ⊙ 222 x 152 x 190 |
| Weight Kg | ⊙ Approx. 2.1 (including Mounting) |



ADVANTAGES

- ⊙ Light, compact housing
- ⊙ Easy to rotate swivel mount – easy alignment of the front plate (antenna side)
- ⊙ Sensor is away from the water, making the installation safer to achieve
- ⊙ Influence of waves are compensated mathematically – no requirement for the use of structures
- ⊙ Non-contact measurement – ideal for flood measurement
- ⊙ Compact and solid design – long sensor life with minimal maintenance
- ⊙ Flat antenna means that insect and spider infestation is not a problem
- ⊙ RS-485 interface – allows a connection cable length of up to 1,000 m, allowing data logger and power source to be situated further away
- ⊙ Perfect for channels that suffer from high levels of flotsam and sediment load
- ⊙ Ideal for areas subject to flooding (in addition to existing sensors)

| | |
|---------------------------------------|--|
| Operational environment | <ul style="list-style-type: none"> ⊙ Operating temperature: -40°C to 60°C ⊙ Storage temperature: -40°C to 85°C ⊙ Relative humidity: 0-100% |
| Materials | <ul style="list-style-type: none"> ⊙ Housing: ASA (UV-stabilized ABS) ⊙ Radom (front plate): TFM PTFE ⊙ Mounting: 1,4301 (V2A) |
| Rating | <ul style="list-style-type: none"> ⊙ With horizontal mounting IP67 (submersion depth max. 1 m; submersion duration max. 48 h) |
| Power Consumption (at 12 V) | <ul style="list-style-type: none"> ⊙ CE version active: <15 mA ⊙ CE version sleep: <0.05 mA ⊙ FCC version active: <15 mA ⊙ FCC version sleep: <0.05 mA |
| Rotation range of swivel mount | <ul style="list-style-type: none"> ⊙ Lateral axis: ±90° ⊙ Longitudinal axis: ±15° |
| Cable gland sealing range | <ul style="list-style-type: none"> ⊙ With inlet (min. Ø - max. Ø): 4.0-7.0 mm ⊙ Without inlet (min. Ø - max. Ø): 7.0-11.0 mm |

EMV LIMITS AND RADIO APPROVALS

- ⊙ Version CE: EMV for low power radio devices ETSI EN 301 489-3
- ⊙ Low-voltage device safety EN 60950-1
- ⊙ Radio approval for low power radio devices; Europe ETSI EN 300 440
- ⊙ Radio approval for low power radio devices; Canada RSS 210 Issue 7
- ⊙ FCC Version: Radio approval for low power radio devices; USA FCC 47 CFR Part 15

| DESCRIPTION | PART NUMBER |
|--------------------|-------------|
| Radar Level Sensor | WT26-200 |



Easy sampling methods

SAMPLING

When samples are required either from hard to reach places or at a certain depth of the water table, specialist sampling equipment can be necessary to ensure accurate and representative results.

SAMPLE CUP

This simple anodized aluminium cup allows the user to gain samples quickly either from easy to reach sources, or where there is a drop by use of the 5 m steel cable, attached via a carabiner clip. Perfect for samples of up to approximately 150 ml.

- ⦿ Simple and low cost
- ⦿ Anodised aluminium construction
- ⦿ Easy to use
- ⦿ Easy to clean
- ⦿ Cables can be attached in series to increase reach

| DESCRIPTION | PART NUMBER |
|---|-------------|
| Sample cup with 5 m steel cable and carabiner | WT10-720 |
| Additional 5 m cable and Carabiner | WT10-724 |

VAN DORN WATER SAMPLER

Designed for both vertical and horizontal deployment and can be used in both marine and fresh water environments. Zero internal metal parts means sampling for heavy metals analysis is possible. Visual inspection is also possible due to the clear acrylic body.

- ⦿ Clear body
- ⦿ No metal parts
- ⦿ Horizontal or vertical deployment
- ⦿ 1 L or 2 L models
- ⦿ 5 Kilos

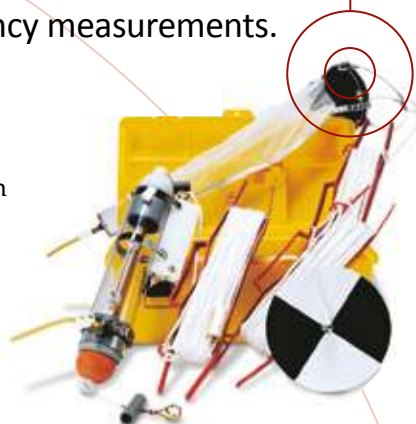


| DESCRIPTION | PART NUMBER |
|--------------------------|-------------|
| Vertical style 1000 ml | WT26-148 |
| Vertical style 2000 ml | WT26-150 |
| Horizontal style 1000 ml | WT26-152 |
| Horizontal style 2000 ml | WT26-154 |

WATER SAMPLER FIELD KIT

This kit offers a variety of sampling possibilities including depth sampling, zooplankton sampling and also Secchi disc transparency measurements.

- ⊙ Clear polycarbonate vertical sampler (1 L)
- ⊙ 200 g messenger
- ⊙ 20 cm limnological Secchi discs
- ⊙ Armoured spirit filled thermometer (-5°C to 40°C)
- ⊙ Plankton net (20 cm x 60 cm, 153 µm)
- ⊙ 3 calibrated lines with 0.5 m graduations
- ⊙ Line reels
- ⊙ Carry case and instructions



| DESCRIPTION | PART NUMBER |
|--------------------------|-------------|
| Water sampling field kit | WT26-156 |

WATER SAMPLING AND MEASUREMENT KIT

Created for the collection of water, plankton and sediment samples. This kit also measures for turbidity, temperature and colour. Very lightweight and easy to transport and requires minimal training.

- ⊙ Dissolved oxygen water sampling bottle
- ⊙ Bottom sampling dredge
- ⊙ Limnological Secchi disc
- ⊙ Sounding lead and calibrated line
- ⊙ Plankton net
- ⊙ Colour scale
- ⊙ Armoured spirit filled thermometer (-5°C to 50°C)
- ⊙ Foam lined 350 x 180 mm carry case



| DESCRIPTION | PART NUMBER |
|--|-------------|
| Combined water sampler and measurement kit | WT26-158 |

TUBE WATER SAMPLERS

Simple sampling tubes designed to be lowered into vertical tube systems by a rope.

| DESCRIPTION | PART NUMBER |
|--|-------------|
| Sampler, SS, 250 ml with 20 m fibre tape | WT26-160 |
| Sampler, SS, 1000 ml | WT26-162 |
| Rope and hook eye for use with 1000 ml sampler | WT26-164 |

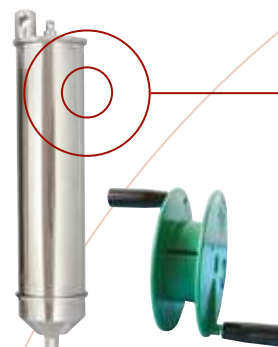


BACON SAMPLER

Used to collect liquid from any depth within a storage tank, ponds, lagoons and wells.

A suspension cable is used to lower the stainless steel sampler to the required depth where a second plunger cable deploys the unit. Releasing the plunger cable reseals the unit ready for extraction.

- ⊙ Stainless steel housing
- ⊙ Capable of sampling the top, bottom or mid water column
- ⊙ Simple plunger assembly
- ⊙ Dimensions mm 63 x 280
- ⊙ 500 ml sample volume



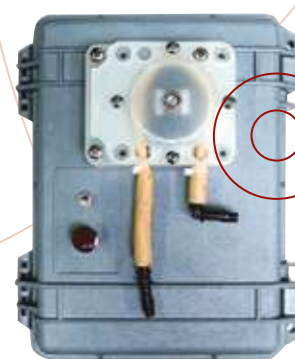
| DESCRIPTION | PART NUMBER |
|--------------------------------------|-------------|
| Bacon sampler, SS, 500 ml | WT26-166 |
| Heavy duty hand reel (polypropylene) | WT26-168 |
| PTFE coated SS cable – 25 m | WT26-169 |

WATER SAMPLING PUMP

Designed to move samples from shallow wells or surface water sources such as lakes, ponds and holding pools.

The sampler is lightweight, rugged, easy to use, weather resistant and requires almost no maintenance. A backflush function is available after sampling to ensure no contamination in the sample hose. Water samples only ever come into contact with the neoprene and polythene tubing to ensure sample integrity. No lengthy decontamination process, simply change the tubing. Includes a 3 m cord that can be attached to a 12 V power source, such as a car battery.

- ⊙ Stainless steel housing
- ⊙ Capable of sampling the top, bottom or mid water column
- ⊙ Simple plunger assembly
- ⊙ Dimensions mm 63 x 280
- ⊙ 500 ml sample volume



TECHNICAL SPECIFICATION

| | |
|---------------|----------------------------|
| Flow rate | ⊙ 1000 ml/hr at 1.2 m head |
| Maximum lift | ⊙ 6.7 m |
| Pump tube | ⊙ 6 mm neoprene |
| Sample hose | ⊙ Nylon reinforced PE |
| Enclosure | ⊙ Expanded PVC |
| Dimensions mm | ⊙ 230 x 190 x 115 |
| Weight Kg | ⊙ 2.7 |

| DESCRIPTION | PART NUMBER |
|--|-------------|
| Peristaltic pump system, including tubing and 3 m power cord | WT26-170 |
| PE tubing (per M) | WT26-172 |

AUTOMATIC WATER SAMPLER

Designed specifically to meet the requirements of industrial discharges into sewers, rivers and streams. The sampler takes a time weighted composite sample into a 10L bottle, meeting wastewater sampling guidelines.

The instrument can be very easily deployed near rivers and streams or can be suspended in a manhole for sewer sampling.

- ⊙ No programming and simple to operate
- ⊙ Timed and external flow pulsed composite samples
- ⊙ Adjustable and repeatable sample volume
- ⊙ AC power or via Rechargeable battery
- ⊙ Lightweight
- ⊙ Peristaltic pump for zero contamination



TECHNICAL SPECIFICATION

| | |
|-------------------------------|--|
| Sample size composite | ⊙ 25 ml to 600 ml (adjustable) |
| Materials | ⊙ Expanded UV protected by PVC |
| Enclosure bottle | ⊙ 10L PE |
| Flow Rate | ⊙ 1000 ml/min at 1.2 m head |
| Type | ⊙ Peristaltic |
| Max Lift | ⊙ 6.7 m |
| Logic Timer/Controller | ⊙ CMOS solid state |
| Sample hose | <ul style="list-style-type: none"> ⊙ 4.5 m nylon reinforced 6mm ID PE flexible tubing sections with intake strainer ⊙ Extendable using standard 6 mm tubing and fittings |
| Dimensions mm | ⊙ 230 x 430 x 560 |
| Weight Kg | ⊙ 10 |

| DESCRIPTION | PART NUMBER |
|---|-------------|
| Automatic water sampler supplied complete with rugged rainproof lockable carry case | WT26-174 |
| 10 litre PE sample bottle for composite sample, peristaltic sampling pump | |
| Control panel enclosed logic timer/controller. 4.5 m sample pick up hose with removable debris strainer, rechargeable battery and charger | |



Geophysical testing equipment

Geophysical techniques are widely used in remote regions of the world where groundwater records may be non-existent to locate and map underground water resources.

EARTH RESISTIVITY KIT

This earth resistivity meter (ERM) offers reliable performance in a convenient, robust, fully portable design.

Designed for subsoil groundwater prospecting at shallow, medium and great depths, it can also be used for geological stratigraphy, salt water studies, fresh water layer contamination, landslide monitoring, mineral exploration and archaeological research.



- Creates an energetic wave based upon supplied parameters
- Data transfer via RS232
- Over 50 hours battery life
- Automatic calibration on every switch on
- Lightweight and sturdy

Kit comprises the following items:

- ERM Unit
- Cable reel with 300 m cable (1 mm section) x 2
- Cable reel with 100 m cable (1 mm section) x 2
- Rechargeable accumulator (200V, 500 mA) x 2
- Copper electrode
- Inox steel electrode
- 1.25 Kg Mallet x 2

TECHNICAL SPECIFICATION

| | |
|-----------------------------|---|
| Energisation curve | May be customised to suit the following parameters: <ul style="list-style-type: none"> Positive and negative wave length: <ul style="list-style-type: none"> 0.1-9.9 seconds (impl. At 25 seconds) Time between positive and negative wave: <ul style="list-style-type: none"> 0.1-9.9 seconds Intercycle time: 1-99 seconds Number of cycles: 1-99 |
| Resolution | 610 nV, 126, 8 nA |
| No. of readouts/wave | 3 Voltage and 3 Current |
| Voltage range | +/- 20 mV to +/- 1280 mV (automatic) |
| Memory | Up to 1500 readings |
| Energiser | 600 V (1200 V peak-peak) 0.5 max |
| Noise suppression | Superior to 98 db at 50-60 Hz |
| Power supply | 2 x Internal rechargeable batteries 6 V-4 A/h |
| Dimensions mm | 380 x 270 x 150 (in shock proof case) |
| Weight Kg | 7 |

| DESCRIPTION | PART NUMBER |
|-----------------------|-------------|
| Earth resistivity kit | WT26-146 |





Hydrometeorology

Hydrometeorology is a branch of meteorology and hydrology that studies the transfer of water and energy between the land surface and the lower atmosphere. Organisations such as UNESCO and UNDP have several programmes and activities in place that deal with the study of natural hazards of hydrometeorological origin and the mitigation of their effects.

HYDROLAB

The Hydrolab HL4 is a next generation multiparameter water quality instrument. Its reliability, ease-of-use, and metadata produce trustable water quality data.

A self-monitoring system that reports the status of the instrument, shows the user where potential problems are, and gives assistance on how to solve issues. Streamline calibration tasks with user-scheduled calibration intervals that indicate when calibration is due, guided and semi-automated calibration routines that lead the user through the calibration process, and a check calibration procedure that can be used to avoid a complete calibration. Produce valid, scientifically defensible conclusions with sensor status that is saved with every line of data and calibration reports that store information about previous calibrations.

- Self-monitoring system reports the status of the instrument, flags the data, and shows the user where the problem is with assistance on how to solve the issue
- User-scheduled calibration and maintenance intervals indicate when they are due
- Guided and semi-automated calibration routines lead the user through the calibration process
- Calibration results are stored with date and time, calibration type, user identification, and user notes
- Check Calibration process allows the user to verify calibration and store the results
- Calibration reports contain information about previous calibrations and calibration checks
- Sensor status is saved with every line of data and is contained in the log file
- Dedicated communications modules allow easy integration with data loggers and telemetry systems
- Compatible with the Surveyor HL – a fully IP67 handheld designed for field use with a full-colour screen that is visible in direct sunlight



The Hydrolab HL4 connects to rugged deployment cables and the Surveyor HL for attended monitoring applications that require equipment designed for field use. The Surveyor HL is a lightweight, compact, fully IP67 handheld with a full-colour screen that is visible in bright sunlight. For unattended continuous monitoring applications, the Hydrolab HL4 has on-board data logging and dedicated communications modules that are used for easy integration with external data loggers and telemetry systems.



APPLICATIONS

Water quality measurement in:

- ⊙ Freshwater rivers and streams
- ⊙ Lakes and reservoirs
- ⊙ Groundwater wells
- ⊙ Salt or brackish water bays, estuaries, and near-coastal areas

Attended monitoring

Real-time unattended monitoring



| DESCRIPTION | PART NUMBER |
|--------------|-------------|
| Hydrolab HL4 | WT26-300 |
| Surveyor HL | WT26-302 |

TECHNICAL SPECIFICATION – HL4 SONDE

| | |
|------------------------------|---|
| Diameter | ⊙ 4.44 cm without rubber bumpers |
| Length | ⊙ 51.43 cm to 77.8 cm depending on configuration |
| Weight Kg | ⊙ 2.2 with internal battery pack and storage/calibration cup |
| Depth Rating | ⊙ +/- 20 mV to +/- 1280 mV (automatic) |
| Communications | <ul style="list-style-type: none"> ⊙ Hydrolab communications modules: USB, SDI-12, RS232, RS485, or TTY. ⊙ A USB Communications Module is included with a sonde. Others are sold separately. |
| User Interface | ⊙ Hydrolab Operating Software on Microsoft Windows OS (Windows XP with Service Pack 3 or later) |
| Power Requirements | <ul style="list-style-type: none"> ⊙ External: 6-24 VDC (12 VDC nominal) applied to the communications module. 12 VDC: 250 mW average, 19 W peak ⊙ Internal (optional): internal alkaline D-cell battery, non-rechargeable. |
| Logging | <ul style="list-style-type: none"> ⊙ 4 GB of internal memory; 1 second interval minimum. ⊙ Sufficient memory to keep 5 years of continuous measurements with a 15 minute logging interval |
| Sensors | ⊙ Temperature sensor plus 4 additional universal sensor ports and optional depth |
| Operating Temperature | <ul style="list-style-type: none"> ⊙ 5°C to 50°C, non-freezing ⊙ Operating outside this temperature range may result in mechanical damage or faulty electronic performance |

TECHNICAL SPECIFICATION – SURVEYOR HL

| | |
|------------------------------|---|
| Graphical Display | <ul style="list-style-type: none"> ⊙ Colour, LCD 3.5" QVGA ⊙ Transflective (readable in direct sunlight) |
| Power Supply | <ul style="list-style-type: none"> ⊙ Lithium-ion rechargeable ⊙ Battery life: up to 10 hours continuously on (20°C) |
| Rating | ⊙ Handheld meter: IP67 |
| Buoyancy | ⊙ Positively buoyant in water |
| Dimensions mm | ⊙ 218 x 94 x 53 |
| Weight Kg | ⊙ 0.68 |
| Operating Temperature | ⊙ -5°C to 50°C |



Hydrometeorological logging

netDL LOGGER

The netDL 500 and 1000 data loggers were developed for use at hydrology and meteorology stations. As well as their standard task of collecting data, the flexible data loggers can use all current methods of remote data transfer and are equipped to communicate via the Internet.

Based on their modular design, the loggers are individually configured according to customer specifications and are therefore perfectly tailored to their particular application. A powerful GSM/GPRS/3G modem is pre-installed for transmitting data to the headquarters (optional). Ethernet, RS-232 and USB ports and an integrated web server create additional communication possibilities. Those who need a high level of data availability can use different communication routes concurrently. Also short polling cycles may be set, since the loggers may be used in a multitasking environment and are capable to communicate with all connected sensors in parallel. A high storage capacity and efficient power management go without saying in this connection. At the same time, these all-rounders are easy to operate and can even be controlled remotely using standard browsers.

LOCAL COMMUNICATION

For local data logger communication, your PC or tablet may be connected through the RS232 or USB interfaces. The USB host interface is useful to retrieve data and save flash memory on site. The backlit display shows current data at a glance.

REMOTE DATA TRANSFER

The flexible loggers are all-rounders when transferring data remotely. Transfer through mobile phones, dedicated lines, satellite or over Ethernet (netDL1000 only). They are well prepared for IP communication.



- Optional built-in modem for mobile web communication
- Both modem and data logger are perfectly matched to each other; no external modem is required but may be used as an alternative
- Cellular networks: GSM/GPRS, 3G, and 4G*
- Ethernet interface (netDL 1000) – direct and high-speed connectivity to the web through LAN, DSL, and all IP ports**
- Standardised interfaces and support for a number of transfer protocols (HTTP, HTTPS, SMTP, FTP) and data formats (e.g. XML)
- Easy integration into existing and future systems
- Parallel processing of data of all channels – minimises transfer times and allows short polling cycles
- Time sync is through SNTP which provides precisely timed long-term series of measurements to be carried out
- Internal TCP/IP stack for hardware independent smooth operation
- Encrypted secure data transfer through HTTPS

* Requires external modem.

**for all IP ports a router is required, Ethernet not available for netDL500



| DESCRIPTION | PART NUMBER |
|-------------|-------------|
| netDL500 | WT26-310 |
| netDL1000 | WT26-312 |

| SENSOR INTERFACES AND OUTPUTS | netDL 1000 | netDL 500 |
|---|------------|-----------|
| SDI-12 via RS-485 | ⊙ | ⊙ |
| Modbus RTU (master) | ⊙ | ⊙ |
| Pulse/status input | 4 | 2 |
| Analogue input1) 2) | Max 12 | Max 6 |
| Analogue output1) | Max 6 | Max 4 |
| Status output (2) /Switch output (2) switches external devices ON/OFF, e.g. external modems | ⊙ | ⊙ |
| RS-232 serial input1) | 1 | 1 |
| Ethernet (for coupling data loggers or connecting IP cameras) | ⊙ | |

TECHNICAL SPECIFICATION

| | |
|--------------------------------------|---|
| Communications interfaces | <ul style="list-style-type: none"> ⊙ Ethernet RJ-45 10 Base-T (netDL 1000: 1) ⊙ USB Host and USB Device ⊙ RS-232 (netDL 1000: 2; netDL 500: 1) |
| Sensor interfaces (standard version) | SDI-12 V1.3 <ul style="list-style-type: none"> ⊙ RS-485 (SDI-12/Modbus RTU) ⊙ Pulse/status input (netDL 1000: 4; netDL 500: 2) ⊙ Status output (2) ⊙ Switch output (2) |
| Input/output modules | <ul style="list-style-type: none"> ⊙ Analogue inputs and outputs (configurable) ⊙ Analogue inputs, isolated (configurable) ⊙ Serial input module for OTT Sensors ⊙ Barometric input board |
| Measuring channels | ⊙ Standard: 40; optionally 120 |
| IP communication | <ul style="list-style-type: none"> ⊙ Integrated TCP/IP stack (HTTP, HTTPS, FTP, SMTP, Socket...) ⊙ GSM/GPRS/3G, Ethernet/DSL, PPP over landline ⊙ Integrated web server ⊙ Encrypted data transmission HTTPS SSL 3.0 / TLS 1.0 / 1.1/1.2 |
| Integrated modem (optional) | ⊙ GSM/GPRS 900/1800, 850/1900 MHz GSM/GPRS; 3G (UMTS/HSPA+) 900/1800, 850/1900 MHz; 800/850, 900, AWS 1700, 1900, 2100 MHz |
| Time synchronisation | ⊙ SNTP (Simple Network Time Protocol) |
| Power consumption at 12 V DC | <ul style="list-style-type: none"> ⊙ Sleep mode: < 250 μA; Sleep mode, impulse active: < 10 mA ⊙ Active mode: approx. 25 mA – max. 400 mA (depending on configuration) |
| Power supply | ⊙ 9-28 V DC (typical 12 V DC) |
| RAM / NOR / NAND Flash | ⊙ 4 MB / 8 MB / 256 MB |
| Data memory | <ul style="list-style-type: none"> ⊙ Up to 1,100,000 values ⊙ OTT Parsivel spectral data |
| Dimensions mm | <ul style="list-style-type: none"> ⊙ netDL 1000: 232 x 124 x 86 ⊙ netDL 500: 148 x 124 x 86 |



Stand alone stations

HYDROSYSTEMS

Hydrosystems allow hydrological measuring stations to be set up using only a few manual operations. The high quality and completely fitted system cabinets include components for power supply and all that is needed for saving and transmitting measured data. Several system options are available.

With the netDL500 at the core of each unit, the Hydrosystems are designed to be used with remote measuring stations supplied by solar or mains energy. Multiple SDI-12 sensors may be connected through numerous channels and the data measured through GSM/GPRS telemetry. Some versions also offer Ethernet or satellite communications. The lockable cabinets are dust and splash proof for optimal protection and include ventilation and drainage.



HIGH-QUALITY BASIC CONFIGURATION

The basic configuration of the rugged control cabinet includes everything needed for data measurement and transfer. All include the following components:

- ⊙ Lockable stainless steel control cabinet with breathing gland
- ⊙ netDL500 IP datalogger with built in GSM/GPRS modem and flat antenna, Version F includes netDL1000
- ⊙ Compatible rechargeable battery and solar panel also available
- ⊙ Connector for SDI-12 sensors such as RLS, PLS, SE200 and CBS included
- ⊙ Overvoltage protection
- ⊙ Wiring diagram

All components within the control cabinet are fully installed; the datalogger is already pre-configured. The control cabinet may be installed to the mast as well as to the wall, e.g. within the gauge station.

POWER SPECIFICATION

| | |
|---|---|
| Power Supply (solar energy) | <ul style="list-style-type: none">⊙ Solar controller OTT PR1205⊙ Optional: Solar panel 12 V/30 W, 460 mm x 530 mm (W x H) with 1" outrigger⊙ Optional: Battery 12 V/26 Ah |
| Power Supply (mains power) | <ul style="list-style-type: none">⊙ Power Control Unit OTT PCU12⊙ Optional: Battery 12 V/7 Ah |
| Enhanced overvoltage protection Mains power supply (solar optional) | <ul style="list-style-type: none">⊙ SPD acc. to EN 61643-11: Type 3⊙ SPD acc. to IEC 61643-1/-11: Class III |
| Enhanced overvoltage protection Sensors (optional) | <ul style="list-style-type: none">⊙ EN 61643-21⊙ IEC 61643-21 |



SYSTEM VERSIONS

HydroSystems are available in seven different versions. Standardisation of the compact systems allows for cost-efficient production resulting in significant savings, compared with individual solutions.

Identical basic configurations and upgrade modules allows for easy creation of the perfect solution for any application.

Mains powered versions have extended power supply overvoltage protection, this protection can be extended to solar supplies as required.

All Variants come with basic configuration as standard

Hydrosystem A – Part number WT26-402

- ⊙ Optional extended overvoltage protection

Hydrosystem B – Part number WT26-404

- ⊙ OTT HDR G3
- ⊙ GPS controlled satellite transmitter, including antenna
- ⊙ Optional extended overvoltage protection

Hydrosystem C – Part number WT26-406

- ⊙ OTT CBS bubble sensor
- ⊙ Extended overvoltage protection (optional)

Hydrosystem D – Part number WT26-408

- ⊙ OTT CBS bubble sensor
- ⊙ OTT HDR G3, GPS controlled satellite transmitter, including antenna
- ⊙ Optional extended overvoltage protection

Hydrosystem E – Part number WT26-410

- ⊙ Connectivity for four analogue sensors
- ⊙ Solar power supply

Hydrosystem F – Part number WT26-412

- ⊙ netDL1000
- ⊙ Ethernet interface
- ⊙ Mains power supply
- ⊙ Extended power supply overvoltage protection
- ⊙ Optional extended overvoltage protection for sensors

Hydrosystem G – Part number WT26-414

- ⊙ Basic configuration
- ⊙ Mains power supply
- ⊙ Extended power supply overvoltage protection
- ⊙ Optional extended overvoltage protection for sensors

FEATURES AND BENEFITS

- ⊙ All components preinstalled, prewired and preconfigured
- ⊙ Efficient power management and diverse communication options
- ⊙ Optional CBS indirect water level sensor for areas prone to lightening
- ⊙ Optional HDR G3 transmitter for data transfer in poor GSM/GPRS infrastructures
- ⊙ Rugged lockable stainless steel cabinet



Complete laboratory capability in a vehicle

In areas where central fixed laboratory sites are either not available or not practical, it could be beneficial to deploy a mobile laboratory facility. Either mounted directly on the back of a large 4 x 4, or within a trailer that can be towed by an appropriate vehicle, these laboratories are an ideal tool for effective analysis of any type in remote locations, avoiding risking sample spoilage during lengthy transit periods back to distant central labs.

MOBILE LABORATORIES RANGE

The most efficient mobile laboratories are mounted directly into the rear of a suitable vehicle and can provide well equipped facilities for a broad range of testing and are often the laboratory of choice when civil works make construction of a fixed site laboratory too expensive.

Most suitable when extreme maneuverability is key, or when a rapid deployment response is required.

Mobile vehicle laboratories are bespoke designed for each application and offer complete flexibility of design.

- ⊙ Single or double cab options
- ⊙ Water, electricity, gas services
- ⊙ Waste disposal
- ⊙ Generators
- ⊙ Novel solar water heating systems
- ⊙ Laboratory space that can either be entered on foot, or accessed while outside the vehicle
- ⊙ Storage solutions
- ⊙ Refrigeration
- ⊙ Overhead lighting
- ⊙ Complete laboratory equipment and consumable provision available from Wagtech Projects Ltd

Please contact info@wagtechprojects.com for more information on these bespoke units.



Fridge



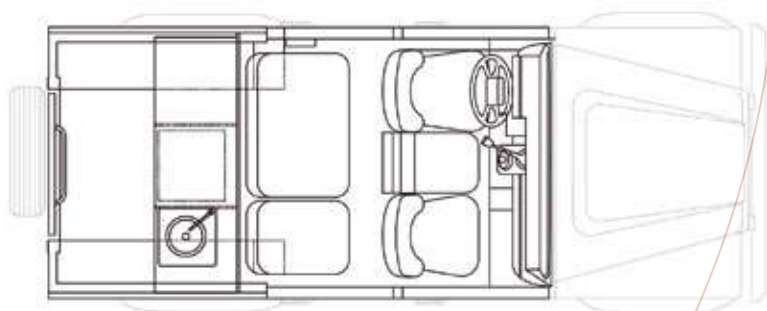
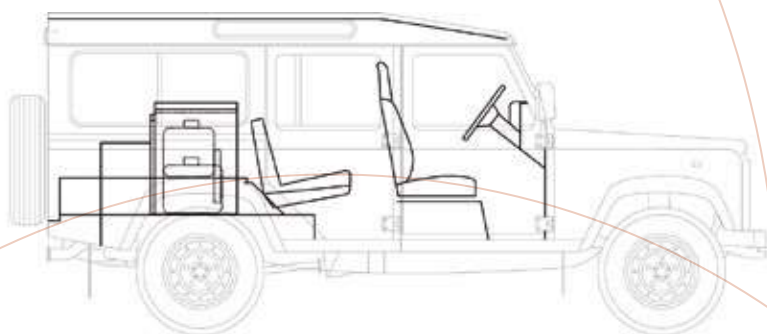
Work space



Sink



Roof rack storage





TRAILER LABORATORIES

Trailer laboratories offer a larger laboratory space more akin to a traditional laboratory and can be deployed either on a temporary or semi-permanent basis. They can also be used as permanent installations as a low cost alternative to expensive civil works projects.

The Trailer Labs offer all the facilities that a fixed laboratory can offer, including high-end analytical equipment such as HPLC and GC. Wagtech Projects Ltd can provide all laboratory equipment, consumables and reagents to give a complete solution.

Suitable for environments where terrain is not as extreme as with a vehicle mounted lab, these units can be easily towed by a truck or tractor to site and then left for short or long periods.

Facilities within the trailer laboratory can include any of the following, and other facilities are also available on consultation:

- ⦿ Complete laboratory fit out, including benching and services
- ⦿ Underfloor 100 L water tank
- ⦿ 12 V water pump
- ⦿ Write up area
- ⦿ Toilets
- ⦿ Showers
- ⦿ Stainless steel sinks
- ⦿ Sleeping area
- ⦿ Separated laboratory areas for mixed discipline labs
- ⦿ Power generation
- ⦿ Heating and lighting
- ⦿ Air conditioning

Whilst each trailer laboratory has a bespoke design to meet the exact needs of each deployment, standard features would include a fully galvanized RHS and angle welded steel construction, PAR type side winding jacks, 12 V lighting, approximate gross weight of 3500 Kg and hydraulically damped coupling and jockey wheel.

Please contact info@wagtechprojects.com for more information on these bespoke units.





Water Treatment

Knowing your water is contaminated is the first step. Once a problem is detected, a solution must be implemented.

As an authorised partner to the LifeStraw® family, Wagtech Projects Ltd offers a range of purification solutions on a personal, household or community level.

LIFESTRAW® PERSONAL

LifeStraw® is an award-winning point-of-use portable water filter that transforms microbiologically contaminated water into safe, clean drinking water. It is ideal for a variety of users outside of the home, from hikers and campers to people displaced by natural disasters.



- Lightweight (56 g)
- Uses hollow fibre microfiltration technology
- Purifies a minimum of 1000 litres of water
- Removes virtually all bacteria (99.9999%) and protozoan parasites (99.9%) that can contaminate water, including giardia
- Reduces turbidity by filtering particulate matter larger than 0.2 microns
- Made of durable plastic and chemical-free
- Doesn't require electrical power, batteries or replacement parts

LifeStraw® uses advanced hollow fibre technology. This is a highly efficient method of filtration. Hollow fibre membrane requires no chemicals like chlorine or iodine.

- Water enters and is forced through narrow fibres under high pressure
- Hollow fibers trap bacteria, protozoa, and other contaminants which are flushed out by backwashing
- Clean water exits through tiny pores in the walls of the hollow fibres
- Filtered water is safe to drink





EASY TO USE

Anyone who can use a drinking straw can use a LifeStraw®. Simply draw the unfiltered water through the LifeStraw®, blow air back through the straw to flush and clear it after drinking.

| DESCRIPTION | PART NUMBER |
|------------------------------|-------------|
| LifeStraw®, single unit | WT30-100 |
| LifeStraw®, pack of 10 units | WT30-102 |
| LifeStraw®, pack of 50 units | WT30-104 |

LIFESTRAW® FAMILY

LifeStraw® Family 2.0 is the next generation of high-volume point-of-use water filter. It converts microbiologically contaminated water into clean, safe drinking water, filtering up to 30,000 litres of EPA-quality water, enough to supply a family of five with clean drinking water for three to five years.

LifeStraw® 2.0 is a durable tabletop unit. It includes a large dirty water storage tank and built in safe storage container with tap.

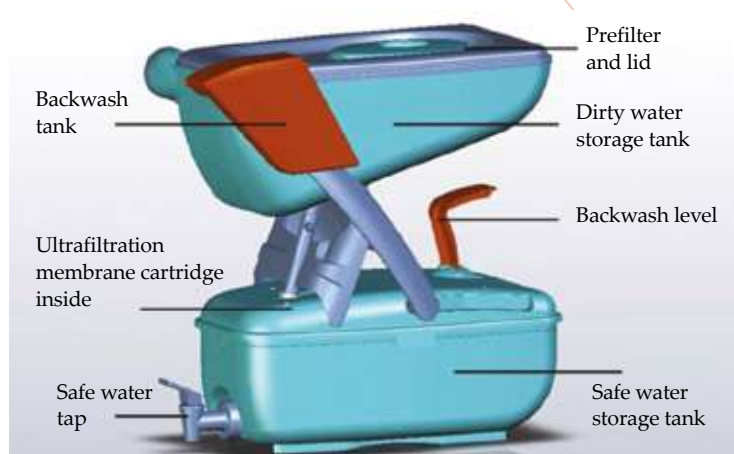
- ⦿ Enhanced a lifetime filtration capacity of 30,000 litres
- ⦿ Filter removes virtually all bacteria (99.9999%), protozoan parasites (99.99%) and viruses (99.999%) that can contaminate water
- ⦿ Reduces turbidity (muddiness) by filtering particulate matter larger than 0.02 microns
- ⦿ Made of durable plastic
- ⦿ No electrical power, batteries or replacement parts
- ⦿ Uses hollow fibre technology which meets the standard for the “highly protective” category of safe water interventions by the World Health Organization
- ⦿ Built-in safe storage container with tap
- ⦿ Easy backwash cleaning system

LifeStraw® Family 2.0 uses advanced hollow fibre technology. Water is forced through narrow fibres under high pressure. Clean water exits through tiny pores in the walls of the hollow fibres, and deposits into the safe storage container. Viruses, bacteria, protozoa, and other contaminants are trapped inside the hollow fibres and are flushed out by backwashing. This is a highly efficient method of filtration.





- ⦿ The 80 micron textile prefilter removes coarser particles and is easy to clean
- ⦿ Dirty water storage tank has a 5 litre capacity
- ⦿ Backwashing of the membranes is done by pressing down on the cleaning lever. Dirty water flows to the small red tank. The dirty water should then be discarded



- ⦿ Ultra filtration takes place in the membrane cartridge – a pore size of 20 nanometre retains bacteria, viruses, parasites and fine dirt particles
- ⦿ Filtered water collects in the safe storage tank, which has a capacity of 5 litres. The storage tank can be opened for cleaning
- ⦿ The durable, field-tested tap provides an easy outlet for purified water

| DESCRIPTION | PART NUMBER |
|---|-------------|
| LifeStraw® Family 2.0, single unit | WT30-200 |
| LifeStraw® Family 2.0, pack of 10 units | WT30-202 |
| LifeStraw® Family 2.0, pack of 50 units | WT30-204 |

GLOBAL IMPACT

- ⦿ 780 million people in the world lack access to an improved source for drinking water
- ⦿ 61 percent of people in sub-Saharan Africa still don't have access to safe drinking water
- ⦿ Lack of access to safe drinking water contributes to the staggering burden of diarrheal disease worldwide
- ⦿ Nearly one in five child deaths – about 1.5 million each year – is due to diarrhea
- ⦿ LifeStraw® addresses cryptosporidium, which was recently found to be a leading cause of diarrheal illness in children under five and is attributed to higher mortality in children under two
- ⦿ Point-of-use (POU) treatments such as LifeStraw® Family 2.0 can accelerate the health gains associated with the provision of safe drinking water to at-risk populations, which is important for children under five and people living with HIV
- ⦿ Improvement of drinking-water quality, such as point-of-use disinfection, could lead to a 45% reduction of diarrhoea episodes
- ⦿ Among all point-of-use water treatment methods, water filters have been shown to be the most effective for reducing diarrheal diseases



LIFESTRAW® COMMUNITY

LifeStraw® Community is a high-volume point-of-use water purifier with built-in safe storage that provides safe drinking water for community, educational and institutional settings. It prevents waterborne disease such as diarrhoea, typhoid, cholera, worms, and cryptosporidiosis.



- Hollow fibre filtration technology converts contaminated water into safe drinking water
- Removes a minimum of 99.9999% of bacteria, 99.999% of viruses and 99.99% of protozoan parasites
- Reduces turbidity (muddiness) by filtering particulate matter larger than 0.02 microns
- Meets the standard for the “highly protective” category of household water treatment options by the World Health Organization and complies with US EPA guidelines for microbiological water purifiers
- Can purify between 70,000 -100,000* litres of water, enough to serve community settings for several years
- Chemical-free and made of durable plastic
- Doesn't require electrical power or batteries

HOW IT WORKS

- 25 litres of untreated water is poured into the top of the unit, also called the dirty water container
- The pre-filter removes coarse particles larger than 80 microns
- The ultrafiltration hollow-fibre membrane cartridge, located inside the main dark blue body of the filter, then stops all turbidity particles and pathogens larger than 20 nanometres (including all bacteria, viruses and protozoan cysts). Particles and microbes larger than 20 nanometres stay on the dirty side of the membrane and clean/purified water passes through the membrane
- Purified water can be collected from any of the four taps
- The backwashing handle allows semi-automatic backwashing; when it is pulled down and released, pathogens and dust particles on the dirty side of the membrane are lifted by backpressure and then flushed out into the red backwash container



| DESCRIPTION | PART NUMBER |
|--|-------------|
| LifeStraw® Community, single unit | WT30-300 |
| LifeStraw® Community, pack of 5 units | WT30-302 |
| LifeStraw® Community, pack of 20 units | WT30-304 |



TRAINING AND AFTER-SALES SUPPORT

At Wagtech Projects we place great importance on the technical advice and training support we give to both our existing and prospective customers.

Whatever your requirements are in the field of heavy metals analysis, water quality testing, or general environmental monitoring, we can provide expert advice from our team of in-house specialists.

These resources are augmented by our extensive contacts with universities and research institutes globally.

Technical sales advice is always available from the point of initial enquiry, to advise on the best equipment for the required application, from compact field testing kits to laboratory-installed instrumentation. We can provide comprehensive guidance on the selection of appropriate accessories and consumables for your application.

Extensive training on our full range of instruments is always available, from online training sessions delivered remotely by our team, to one-to-one training offered either at our local offices worldwide, or on site at your location to include your full team.

After-sales support, including a comprehensive technical support and instrument service/repair provision, is provided by our team of acknowledged expert scientists and engineers working globally.

In addition to technical support from Wagtech Projects experts, we have an extensive network around the world of local Wagtech Projects subsidiaries and representatives who have also received training in our full range of products and can offer truly local support for all of your technical requirements.







TERMS AND CONDITIONS

Terms and Conditions of Business Definition and construction "The Seller" shall mean Wagtech Projects Limited, any associated company or subsidiary thereof or any duly appointed agent. These conditions shall be deemed to be incorporated in any contract between the Purchaser and the Seller and shall be construed in accordance with the provisions of English Law prevailing at, on or after the day any order has been accepted by the Seller. Any disputes which may arise in relation to a contract shall be referred to a single arbitrator (who shall act as an expert and not as an arbitrator) in accordance with the Arbitration Act 1950 or any statutory modification on re-enactment thereof for the time being in force: the decisions of such arbitrator shall be final and binding upon the parties to the contract in dispute and his fees shall be borne by the party who appointed him. 1 Acceptance: All orders received shall be understood to be placed in accordance with these Terms and Conditions of Business. In accepting proprietary goods delivered by the Seller the Purchaser shall be deemed to accept the Manufacturers Terms and Conditions of Business as if the Purchaser had been dealing directly with the Manufacturer in addition to the conditions contained herein so far as applicable. Any other terms of business are excluded and no variation of these terms and conditions shall bind the seller unless made in writing and signed by a Director of the company with whom the order is placed. 2 Goods on Approval: Where the Seller has agreed with the Purchaser to supply goods to the Purchaser for the Purchaser's approval prior to acceptance then if the Purchaser decides he does not require the goods he must return them at his own expense to the Seller in good order and condition within 30 days of receipt failing which the Purchaser shall be deemed to have accepted the goods within the Terms and Conditions hereof and shall be bound to pay for the same accordingly. 3 Prices: All quoted prices are es-warehouse unless expressly specified to the contrary and are subject to alteration without notice. The Seller reserves the right to invoice goods at prices prevailing at the date of dispatch plus value added tax (if appropriate) at the appropriate rate. 4 Quotations: All quotations are subject to confirmation. The right is reserved to correct any errors or omission and to re-quote at prices prevailing at the date of dispatch in accordance with Section 3 hereof. A quotation expressed to be for a fixed price remains open for acceptance by the Purchaser within the period stated in the quotation or, if no period is stated, within 30 days of the date of the quotation irrespective of when the quotation is received by the Purchaser. 5 Delivery: Whilst every effort is made to adhere to delivery dates, no liability whatsoever can be accepted for lateness of non-delivery howsoever arising. Deliveries offered ex-stock are subject to goods being unsold at the date of receipt of the Purchasers order. The seller reserves the right to charge for delivery unless otherwise agreed and stated in writing in respect of individual transactions. Liability for any loss or damage in transit howsoever caused is not under any circumstances admitted to the Seller. 6 Delay: Whilst every effort will be made to adhere to delivery dates, delay or failure to maintain a delivery date shall not entitle the Purchaser to rescind or cancel any order or withhold any payment that may be due. 7 Minimum Order Value: The minimum order value for payment in advance or account is £250.00 and for payment by letter of credit £1000.00. 8 Cancellation: The Seller shall be under no obligation to accept amendment, cancellation or rescission of any order or any part thereof, but may nevertheless agree in writing to such amendment, cancellation or rescission upon whatever terms and conditions it chooses to impose. 9 Returned Goods: Items correctly supplied against an order but subsequently returned as no longer required or cancelled too late to halt delivery, at the discretion of the Seller may be returned, at the Purchasers expense, for credit providing the goods are in an unused condition and in the original packing. A restocking charge will be levied for this service. Before returning any goods to our warehouse, approval for such action must be first obtained from an identified member of our sales/customer service staff who will take down details in event of our agreeing to the return, you will then be given a unique goods return number. These goods return number must accompany any goods returned and be included in any paperwork sent to us. If you omit to include this number the returned goods will not be accepted by the seller and will be returned to you at your expense. All returned goods must include all accessories e.g. AC/DC adaptors. Once approval for the return has been given, the goods

must be received by the seller within 3 weeks. 10 Warranty: Goods are only guaranteed to the extent of the guarantee (if any) given to the Seller by the actual manufacturers, all other conditions, statements and warranties, express or implied, statutory or otherwise on the part of the Seller are hereby excluded. 11 Title: (a) The title in goods sold to the Purchaser by the Seller shall not pass to the Purchaser until all sums due to the Seller from the Purchaser (whether in respect of those goods or otherwise) have been paid to the Seller. If the Purchaser defaults in paying any such sum the Seller shall be entitled to take such action against the Purchaser as it may be entitled in law or in equity without further reference to the Purchaser. (b) The Purchaser shall have the right before title in the goods has passed, to resell the goods or any part thereof but shall pay to the Seller the proceeds of sale or such part thereof as may be necessary to pay all sums due to the Seller from the Purchaser and until such payment shall hold the proceeds of sale on trust for the Seller. (c) Notwithstanding sub clause (a) of this clause, the goods shall be at the Purchaser's risk from the time they are delivered to the Purchaser. 12 Dangerous chemicals and poisons: Chemicals should be handled and used only by trained personnel or under appropriate supervision. No responsibility or liability whatsoever is accepted for any loss arising out of the storage, use or handling of chemicals howsoever caused. The sale of poisons is regulated by the Pharmacy and Poisons Act 1933, the Poisons List and the Poison Rules and amending legislation from time to time laid or made by any competent authority. 13 Orders: No order can be accepted unless all necessary arrangements have been made to the satisfaction of the Seller regarding import and export licenses and for the provision of payment. 14 Terms of payment: (a) Prices are strictly net and unless other terms have been arranged and agreed in writing by the Seller no deductions can be allowed. The right is reserved (i) to request a remittance with an order, (ii) where new accounts are involved, either to request two trade and Banker's references or to issue Pro-Forma invoices and (iii) to charge interest on any balance from time to time outstanding and due to the seller at 5% per annum over and above the Base Rate from time to time charged by Fortis Bank S.A. / NV. For purchasers enjoying a trading account with the Seller, payment must be received by the Seller within 30 days of the invoice date. If payment has not been received by this time the Seller reserves, in addition to the rights above, the right to suspend further supplies of goods until the overdue amount is cleared. (b) Orders from Purchasers outside the United Kingdom must be covered by an Irrevocable Letter of Credit to cover the purchase price, shipping and other additional costs or charges confirmed by a London Clearing Bank (or a London Merchant Bank subject to the prior written approval of such bank by the Seller) unless other arrangements have been made and agreed in writing. Letters of Credit should allow for part payments and shipments and in the case of orders including chemicals should permit deck or special stowage. 15 Delivery and delay: All orders for overseas shipment are accepted in accordance with the conditions herein before contained, it being understood and agreed that delivery time is the Seller's estimate of the time by which it can have the necessary goods packed and ready for dispatch. The Seller cannot accept any responsibility for delays in dispatch caused through non-availability of shipping space and/or other causes beyond its control. 16 Damage and/or Loss in transit and Insurance: (a) the Seller accepts no responsibility for goods Shipped uninsured and shall not be obliged to claim in respect of damage or loss where, at the Purchaser's request, Insurance arrangements have been made other than the Seller's own open cover with its insurers for the time being. (b) Unless the Seller is specifically instructed otherwise, goods will be insured only against loss or damage in transit for the C.I.F value plus 10%. (c) All claims under the Seller's insurance must be notified in writing to the Seller within 45 days from point of discharge. 17 Import Licenses: Where applicable, the Purchaser's order must specify the number, date of expiry and value of the Import License. It shall be the Purchaser's responsibility to obtain all necessary Import Licenses. 18 Bank Charges, Special Documentation, Fees and Duties: All consular and bank charges, import and customs duties and any taxes arising from or by virtue of the contract and its settlement are the liability of the Purchaser unless specifically agreed in writing by the Seller.



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WAGTECH

PROJECTS

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