



WAGTECH POTALAB+

Wagtech Potalab+ is a portable water quality lab offering digital instrumentation and lab-grade accuracy, including Kemio arsenic testing. The kit is ideal for long term monitoring in rural areas.

Separate configurations are available under different part codes:

Potacheck, which includes the Potalab (C) case & Kemio HM soft case kit for chemical testing; and Potatest Dual, which includes the Potalab (M) case only for microbiological field testing.

COMPATIBLE WITH

connect
By Palintest





Portable Microbiological Testing

Employs membrane filtration technique for screening faecal and/or total coliforms. The kit is equipped with an incubator that has independent temperature control and can process up to 20 samples simultaneously, making it perfect for covering multiple sites.



Rapid Physio-Chemical Testing

Our kits include instruments and reagents for a wide range of physical and chemical parameters. This includes advanced tools such as Lumiso Expert, Turbidity Expert, and electrochemical meters for pH and conductivity/TDS.



Seamless Data Management

Easily transfer results from your Lumiso Expert, Kemio, and Turbidity Expert via USB or QR code for full traceability. Add GPS coordinates to pinpoint testing locations and visualise water quality hotspots with confidence.



Field Ready Water Testing

Our kits come with a durable, portable carry case with foam inserts, ensuring longevity even in harsh field conditions. Equipped with a surface for performing tests, Wagtech kits are expertly designed for field testing.

TESTS FOR

Category	Parameter	Range
Chemical parameters (Potalab (C) case with Kemio HM for arsenic)	Ammonia	0.03–1 mg/L N
	Arsenic	2–250 ug/L (ppb)
	Free Chlorine	0.01–5 mg/L Cl ₂
	Total Chlorine	0.01–5 mg/L Cl ₂
	Fluoride	0.03–1.5 mg/L F
	Nitrate	0.6–20 mg/L N
	Nitrite	0.002–0.5 mg/L N
Physical parameters (Potalab (C) case)	Turbidity	0.01–1000 NTU
	pH	–2.00 – 16.00
	ORP	–2000 to +2000 mV
	Conductivity	0 to 200,000 µS/cm 0 – 200 mS/cm
	Total Dissolved Solids (TDS)	0 - 200,000 mg/L 0 – 200 ppt
	Temperature	–10 to +110°C
Microbiological (Potalab (M) case)	Thermotolerant/Faecal Coliforms	>1CFU/ 100mL
	Total Coliforms	>1CFU/ 100mL
Other	Additional parameters with reagents	See pg. 32–35 for other parameters

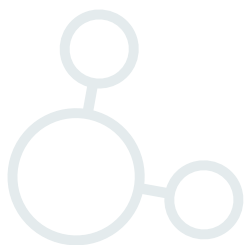
Kit Contents

PTW10011 – Supplied as two cases and soft kit:

Potalab (M) Case and Potalab (C) Case, plus Kemio HM soft case kit



ORDERING INFORMATION
PRODUCT CODE: PTW10011

**Potalab (M) Case includes:**

- 1 Dual Potalab incubators – each with petri dish rack and 20 petri dishes
- 2 High-performance lead acid battery (min. 5 cycles per incubator)
- 3 Mains charger with international adaptors
- 4 Vehicle charger and external battery clips

Membrane Filtration Unit

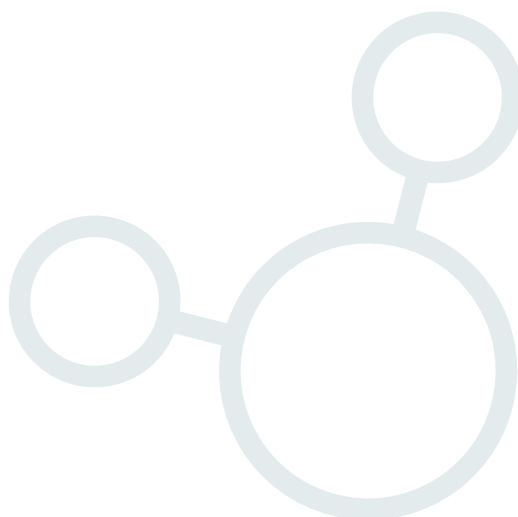
- 5 Bronze disc
- 6 Pistol grip vacuum pump with no-kink silicone tubing
- 7 5 Media Measuring Devices (MMDs)
- 8 38.1g Membrane Lauryl Sulphate Broth
- 9 5 Pasteur pipettes
- 10 Hand lens
- 11 Forceps
- 12 200 sterilised and sealed membrane filters
- 13 200 absorbent pads
- 14 Absorbent pad dispenser
- 15 Steel sampling cup
- 16 Sampling cable
- 17 250 mL polypropylene beaker
- 18 Quick start prompt cards
- 19 Full microbiological instruction manual

Potalab (C) Case includes:

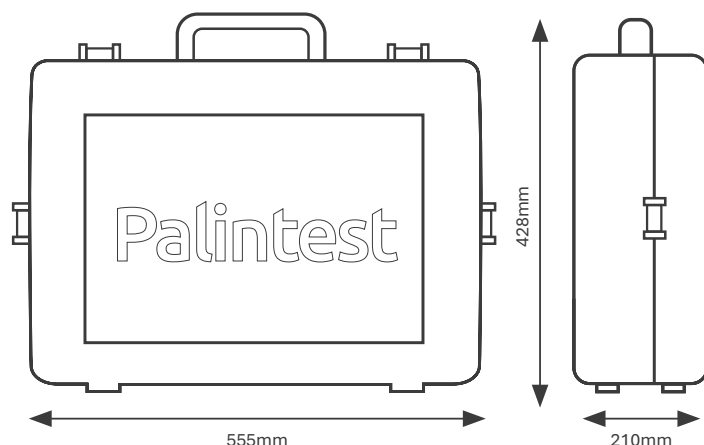
- 20 Lumiso Expert Photometer
- 21 6 photometer cuvettes
- 22 Reagents for 200 tests (Free and Total Chlorine, Ammonia, Fluoride, Nitrite, Nitrate)
- 23 Turbidity Expert
- 24 SDVB calibration standards
- 25 Silicone oil
- 26 Cleaning cloth
- 27 Micro 800 Multiparameter
- 28 pH calibration buffers
- 29 Conductivity calibration standards
- 30 Dilution tubes
- 31 De-ion pack
- 32 User manual

Kemio HM Soft Case Kit:

- 33 Kemio HM Instrument
- 34 Consumables for 200 arsenic tests

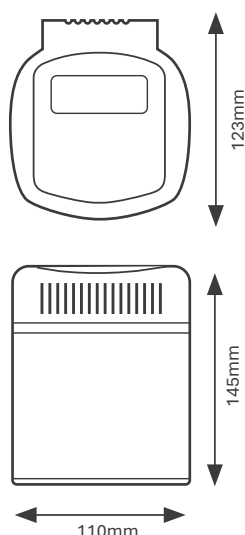


Technical Specification



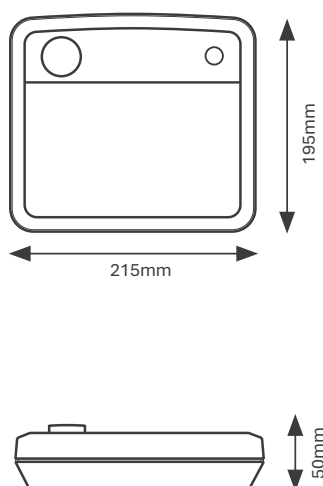
Potalab+ Kit Specifications

Kit Microbiological Capacity	Dual incubators with consumables for 200 tests for Thermotolerant/Faecal Coliforms or Total Coliforms.
Physico-Chemical Parameters	Ammonia, Arsenic, Free and Total Chlorine, Fluoride, Nitrate, Nitrite, Turbidity, pH, Conductivity, Total Dissolved Solids. Additional parameters available.
Kit Size & Weight	Two heavy-duty field cases, each 55.5 x 42.8 x 21.1 cm, 12 kg (M), 11 kg (C).



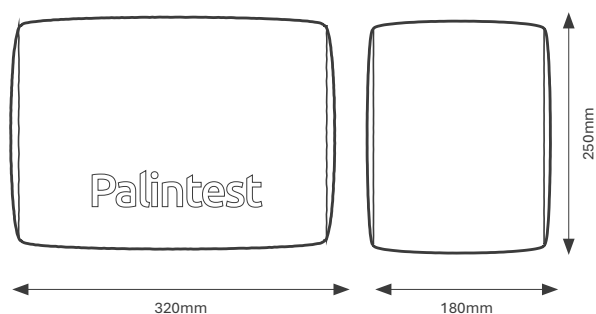
Potalab+ Incubator Specifications

Test Protocols	Temperature selections at 37°C and 44°C, with up to 6 user-defined profiles ranging from 20°C to 50°C. User-selectable time periods for all temperatures, including an automatic resuscitation period.
Temperature Stability	±0.1°C
Temperature Control	Laser-trimmed thermistor pair with automatic temperature validation.
User Interface	On-screen and audible prompts available in English, French, Spanish, and Simplified Chinese (incubator only).
Data Log	Performance report of the last five incubation cycles.
Size & Weight	110 x 123 x 145 mm, 690g
Power Supply	Replaceable sealed lead acid battery with mains, vehicle, and external charging options.
Power Consumption	High thermal efficiency heating system, capable of 5 full cycles from a fully charged battery.



Lumiso Expert Specifications

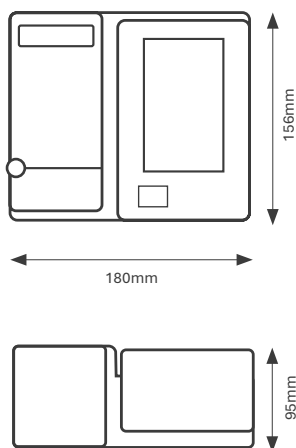
Instrument Type	Multiparameter Photometer
Wavelengths	430 nm, 465 nm, 530 nm, 575 nm, 620 nm
Peak Wavelengths	±2 nm
Accuracy	±1 %T
Display	Full colour TFT – 16:9 ratio screen, resolution 800x480 px
User Interface	PCAP touch panel
Weight (Kg)	0.85
IP Rating & Standards	IP67
Power Supply	6x AA 1.5V batteries or Standalone USB
Connectivity	Via Windows App (USB) or Mobile App (QR Code)
Memory Capacity	Access to 1000 results via device's screen
Battery Life	5000 tests from one set of batteries
Certifications	EN61326, EN61010, IP67 and EN60068-2-78



Kemio Soft Case Specifications

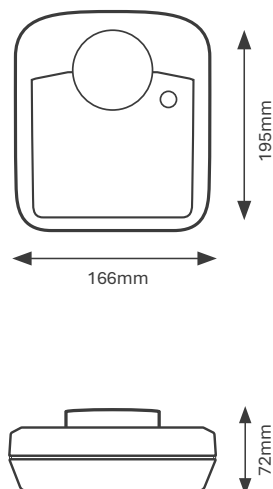
Kit Weight	2.07kg
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Kemio Heavy Metal Specifications



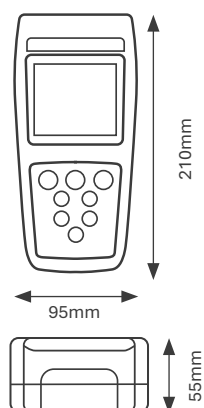
Measuring System	Anodic Stripping Voltammetry (ASV) and Chrono-amperometry
Temperature Range	Ambient range: 0°C-50 °C
Display	Full colour TFT with projected capacitive touch
User Interface	Touchscreen
Language Options	English, French, Spanish and Chinese (Simplified)
Connectivity	USB C
Information Input	Barcode Scanner, on- screen keyboard/keypad
Data Storage	10,000 test results and information
Size (W x L x H) & Weight **	156 mm x 180 mm x 95 mm, 1012g
Battery	2399mAh NiMH Rechargeable Battery Pack
Power Supply	USB Power
Rating	IP67

Turbidity Expert Specifications



Range	0.01-1000 NTU
Repeatability	±1% (or ±0.01 NTU), whichever is greater
Approvals	ISO7027 compliant, featuring 860 nm wavelength LED
Measuring System	Nephelometry
Operating Range	Ambient temperature from 0°C to 40°C
Reading Modes	Normal (Push to Read), Signal Averaging, Continuous
Response Time	<7 seconds in Normal reading mode
Display	800 x 480px full-colour IPS display
User Interface	Touchscreen, usable with wet and gloved hands
Ingress Protection	Enclosure rating IK08 for impact resistance, IP67 waterproof rating
Connectivity	Palintest Connect enabled Wi-Fi, USB-C for data transfer
Data Storage	Up to 5,000 test results
Size & Weight	195 mm x 166 mm x 72 mm, 650g
Battery & Power Supply	Rechargeable Li-ion battery (up to 2500 tests on a full charge), USB-C powered/rechargeable

Micro 800 Specifications



Parameter	Resolution	Accuracy
pH	0.01	±0.01
ORP	0.1 mV (up to ±999.9), 1 mV Above	±0.2 mV or ± 0.5%, whichever is greater
Conductivity	0.01 (0 to 99.99 µS/cm) 0.01 (1.00 – 99.99 mS/cm) 0.1 (100.0 – 200.0 mS/cm)	±1% of full scale or ±1 µS/cm, whichever is greater
Total Dissolved Solids (TDS)	0.01 (0 – 99.99 mg/L) 0.1 (100.0 – 200.0 ppt)	±1% of full scale or ±1 mg/L, whichever is greater
Temperature	0.1°C	±0.5°C