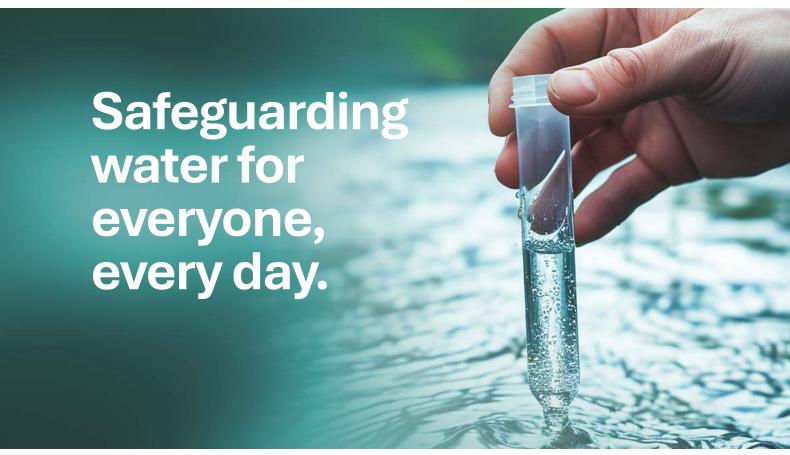






Palintest





At Palintest, we design, manufacture, supply and service water analysis instruments and consumables for drinking & wastewater, recreational, industrial and humanitarian water.

Providing products and services for water quality monitoring and disinfection control, our equipment empowers individuals to make water quality decisions with confidence.

Manufactured in the UK, our technologies are used globally in a variety of applications to protect lives and the environment.



A Proud Member of Halma's Life- Saving Technology Group

Palintest is a member of Halma, a global group of life-saving technology companies. Halma comprises around 50 businesses that deliver innovative solutions to some of the world's most critical challenges.

Where we make a difference



Drinking Water and Wastewater

Safeguard public health with Palintest's advanced testing solutions for drinking water and wastewater.

Recreational Water

Ensure impeccable water quality in your recreational facilities with our water testing solutions.



Industrial Water

Enhance industrial water processes with our cutting-edge solutions.



Palintest provides essential testing tools for rapid water quality assessment in humanitarian efforts.



Products & Solutions

| 1 P | HOTOMETERS | |
|-----------|-------------------------|----|
| | LUMISO EXPERT | 10 |
| - | LUMISO POOLTEST EXPERT | 14 |
| 6 | LUMISO CHLORINE | 18 |
| | LUMISO CHLORINE DIOXIDE | 20 |
| 6 | LUMISO OZONE | 22 |
| 6 | LUMISO AMMONIA | 24 |
| 6 | LUMISO POOLTEST 3 | 26 |
| 6 | LUMISO POOLTEST 6 | 28 |
| 6 | LUMISO POOLTEST 9 | 30 |
| Palintest | TABLET REAGENTS | 32 |
| te | LIQUID REAGENTS | 34 |
| parent . | ACCESSORIES | 36 |

| 2 ELECTRO | OCHEMICAL METERS | |
|-----------|---|----|
| | KEMIO DISINFECTION | 42 |
| | KEMIO HEAVY METALS | 48 |
| | KEMIO MULTI | 52 |
| | SENSORS & LIQUID REAGENTS | 56 |
| | KEMIO ACCESSORIES | 58 |
| Kemio | CHLORINE SENSOR SELECTOR | 60 |
| | MICRO 800 MULTIPARAMETER | 62 |
| · | PH, CONDUCTIVITY, TDS AND MULTIPARAMETER POCKET METERS | 66 |
| | | |

| 3 TURBID | ITY METERS | |
|-----------|---|----|
| 1 | TURBIDITY EXPERT | 74 |
| | TURBIDITY EXPERT & LUMISO CHLORINE KIT | 78 |
| palinkest | TURBIDITY EXPERT ACCESSORIES | 82 |



| 5 VISUAL | кітѕ | |
|-----------|---------------------|-----|
| | CONTOUR COMPARATORS | 132 |
| | TEST STRIPS | 136 |
| | POOLTEST KITS | 138 |
| 1111 | POCKET KITS | 140 |
| 1 | SEWAGE EFFLUENT KIT | 142 |
| / Deliver | VISUAL ACCESSORIES | 144 |
| | | |
| 6 PALINTE | ST CONNECT | 148 |

| 7 | AFTER SALES | 152 |
|---|------------------------------|-----|
| | SERVICING | 152 |
| | LEGACY TRADE-IN | 154 |
| | APPROVALS AND CERTIFICATIONS | 156 |
| | PALINTEST WARRANTY POLICY | 158 |
| | TERMS AND CONDITIONS | 160 |







PHOTOMETERS

A photometer is an essential tool in water analysis, used to measure the concentration of various substances by detecting the amount of light that passes through a water sample. It helps determine water quality by using reagents that change colour in the presence of specific chemicals, allowing for accurate and reliable assessment of different water parameters.



| PHOTOMETERS | | |
|--------------------|-------------------------|----|
| | LUMISO EXPERT | 10 |
| | LUMISO POOLTEST EXPERT | 14 |
| | LUMISO CHLORINE | 18 |
| | LUMISO CHLORINE DIOXIDE | 20 |
| | LUMISO OZONE | 22 |
| | LUMISO AMMONIA | 24 |
| | LUMISO POOLTEST 3 | 26 |
| | LUMISO POOLTEST 6 | 28 |
| | LUMISO POOLTEST 9 | 30 |
| Palintest Palentel | TABLET REAGENTS | 32 |
| | LIQUID REAGENTS | 34 |
| Palinters | PHOTOMETER ACCESSORIES | 36 |

multi-parameter photometer with an extensive range of testing parameters. For users operating in water maintenance industries, such as drinking water and wastewater, who need to perform water analysis testing in-situ or in laboratory environments.







Intuitive Interface

Intuitive and accessible touchscreen navigation, which also works with wet and gloved hands, and simple to follow onscreen instructions, meaning the Lumiso Expert can be used with little to no prior training.



Rugged Construction

Field ready, featuring a robust IP67 waterproof design and IK08 rated construction making it ideal for use in tough field environments.



Cloud Connectivity

Compatible with Connect for easy results retrieval and data traceability for auditing and compliance purposes.



Field Ready

Kit features recycled material case containing accessories required for testing, so you can get testing straight away.



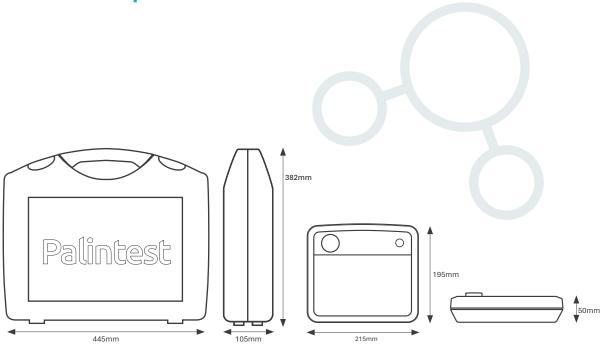


Kit Contents



ORDERING INFORMATION PRODUCT CODE: LUM7210

*Reagents must be purchased separately. The Lumiso Expert is compatible with every liquid and table reagent we offer, See page 32-35 for reagent list.



| 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 |
| Instrument Weight | 0.85kg |
| Kit Weight | 2.56kg |
| 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 |





LUMISO POOLTEST EXPERT

Lumiso Pooltest Expert is a multiparameter benchtop photometer designed as an all-round solution for pool and spa water testing needs. From pool managers through to professional engineers, this photometer is suitable for testing multiple times daily, quickly and accurately across key and troubleshooting parameters.







Intuitive Interface

Efficient and simple to use through a large touchscreen interface and illustrated onscreen instructions for every test, meaning training requirements are minimised and users get quick and accurate results.



Cloud Connectivity

Compatible with Connect for easy results retrieval and data traceability for auditing and compliance purposes.



Comprehensive Testing

Cost effective testing with over 30 tests available on the instrument, ensuring all key and troubleshooting parameters are covered.



Field Ready

Kit features recycled material case containing starter pack of reagents plus all accessories required for testing, so you can get started straight away.



Kit Contents



*Includes starter pack of reagents. To purchase replacement reagents see page 32-35 for ordering information.

ORDERING INFORMATION

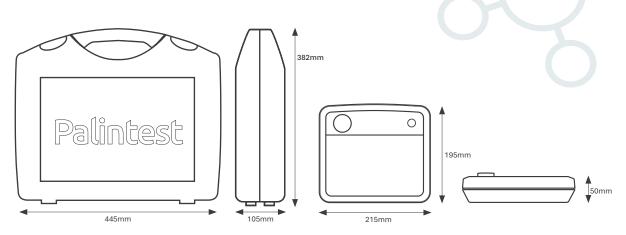
UK/ Rest of World Kit Product Code: LMPXUK

Americas Kit Product Code: LMPXUS

Australia Kit Product Code: LMPXAUS

| Reagents Included | Quantity | Reagents Included | Quantity | Reagents Included | Quantity |
|---------------------|----------|-----------------------|----------|--------------------------|----------|
| DPD1 Free Chlorine | 80 tests | DPD XF Free Chlorine | 80 tests | DPD1 Free Chlorine | 40 tests |
| DPD3 Total Chlorine | 80 tests | DPD XT Total Chlorine | 80 tests | DPD3 Total Chlorine | 40 tests |
| DPD4 Total Chlorine | 20 tests | Cyanuric Acid | 40 tests | DPD4 Total Chlorine | 20 tests |
| Cyanuric Acid | 60 tests | Phenol Red (pH) | 70 tests | DPD XF Free Chlorine | 40 tests |
| Phenol Red (pH) | 80 tests | Coppercol | 10 tests | DPD XT Total Chlorine | 40 tests |
| Coppercol | 20 tests | Total Alkalinity | 60 tests | Cyanuric Acid | 70 tests |
| Total Alkalinity | 60 tests | Calcium Hardness | 40 tests | Phenol Red (pH) | 80 tests |
| Calcium Hardness | 40 tests | Iron MR | 10 tests | Coppercol | 10 tests |
| Iron MR | 10 tests | Oxystop Tablet | 10 tests | Total Alkalinity | 70 tests |
| | | Phosphate LR | 20 tests | Calcium Hardness | 40 tests |
| | | | | Iron MR | 10 tests |





| Instrument Type | Multiparameter Photometer |
|-----------------------|--|
| Wavelengths | 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 |
| Instrument Weight | 0.85kg |
| Kit Weight | 2.63kg |
| 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 |
| | |

LUMISO CHLORINE

Rapid accurate analysis of chlorine. Lightweight, yet robust for field use, the Lumiso Chlorine offers simple reliable testing for drinking and process water applications.







Rugged Construction

Field ready, featuring a robust IP67 waterproof design making it ideal for use in tough field environments.



Compact Portability

Lightweight kit, designed with a reusable reagent box for convenient storage, ensuring you can keep everything required for testing in one place, ideal for taking from site to site.



Cloud Connectivity

Compatible with Connect for easy results retrieval and data traceability for auditing and compliance purposes.



Effortless Operation

Easy to operate with a large display which is quick to deliver accurate results.

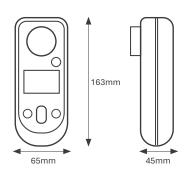
| Parameter | Test Range |
|-------------------------|-------------|
| Free and Total Chlorine | 0.01–5 mg/L |
| Chlorine HR | 1–250 mg/L |

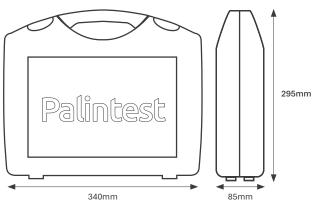
Kit Contents



ORDERING INFORMATION PRODUCT CODE: LUM051

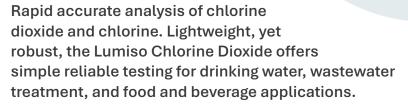
*Reagents must be purchased separately. See page 32 for reagent list.





| Instrument Type | Colorimeter offering direct-reading of pre-programmed test calibrations |
|-----------------------|---|
| Wavelengths | 530 nm |
| Accuracy | ±1 %T |
| Display | 226x138 pixels LCD with backlight |
| User Interface | Language free, on screen visual icons |
| Size (W x L x H mm) | 163 x 70 x 45 |
| Instrument Weight | 0.275kg |
| Kit Weight | 1.3kg |
| IP Rating & Standards | IP67 |
| Power Supply | 3x AA 1.5V Batteries |
| Connectivity | USB for data download and software updates |
| Memory Capacity | Up to 50 data sets |











Rugged Construction

Field ready, featuring a robust IP67 waterproof design making it ideal for use in tough field environments.



Compact Portability

Lightweight kit, designed with a reusable reagent box for convenient storage, ensuring you can keep everything required for testing in one place, ideal for taking from site to site.



Effortless Operation

Easy to operate with a large display which is quick to deliver accurate results.



Cloud Connectivity

Compatible with Connect for easy results retrieval and data traceability for auditing and compliance purposes.

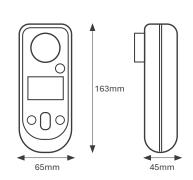
| Parameter | Test Range |
|-------------------------|--------------|
| Free and Total Chlorine | 0.01–5 mg/L |
| Chlorine Dioxide | 0.04–10 mg/L |

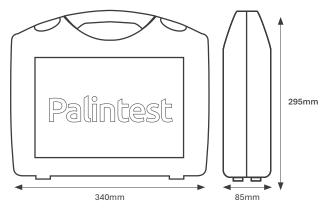
Kit Contents



ORDERING INFORMATION PRODUCT CODE: LUM052

*Contains DPD Glycine (50 tests) and DPD1 (50 tests).
To purchase replacement reagents see page 32-35 for ordering information.





| Instrument Type | Colorimeter offering direct-reading of pre-programmed test calibrations |
|-----------------------|---|
| Wavelengths | 530 nm |
| Accuracy | ±1 %T |
| Display | 226x138 pixels LCD with backlight |
| User Interface | Language free, on screen visual icons |
| Size (W x L x H mm) | 163 x 70 x 45 |
| Instrument Weight | 0.275kg |
| Kit Weight | 1.3kg |
| IP Rating & Standards | IP67 |
| Power Supply | 3x AA 1.5V Batteries |
| Connectivity | USB for data download and software updates |
| Memory Capacity | Up to 50 data sets |



Rapid accurate analysis of ozone.
Lightweight, yet robust, the Lumiso Ozone
offers simple, reliable testing for drinking
and wastewater treatment, and also food and
beverage production.







Rugged Construction

Certified IP67 waterproof, enabling water testing to be carried out in challenging environments.



Compact Portability

Lightweight kit, designed with a reusable reagent box for convenient storage, ensuring you can keep everything required for testing in one place, ideal for taking from site to site.



Effortless Operation

Easy to operate with a large display which is quick to deliver accurate results.



Cloud Connectivity

Compatible with Connect for easy results retrieval and data traceability for auditing and compliance purposes.

| Parameter | Test Range |
|-----------|-------------|
| Ozone | 0.01–3 mg/L |

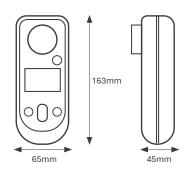
Kit Contents

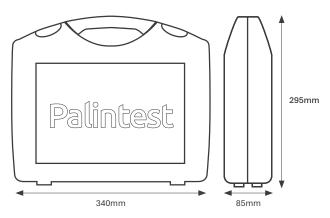


ORDERING INFORMATION PRODUCT CODE: LUM053

*Contains DPD4 (100 tests).

To purchase replacement reagents see page 32-35 for ordering information.





| Instrument Type | Colorimeter offering direct-reading of pre-programmed test calibrations |
|-----------------------|---|
| Wavelengths | 530 nm |
| Accuracy | ±1 %T |
| Display | 226x138 pixels LCD with backlight |
| User Interface | Language free, on screen visual icons |
| Instrument Weight | 0.275kg |
| Kit Weight | 1.3kg |
| IP Rating & Standards | IP67 |
| Power Supply | 3x AA 1.5V Batteries |
| Connectivity | USB for data download and software updates |
| Memory Capacity | Up to 50 data sets |

LUMISO AMMONIA

Rapid accurate analysis of ammonia. Lightweight, yet robust, the Lumiso Ammonia offers simple reliable testing for drinking and wastewater treatment, and environmental samples.







Rugged Construction

Field ready, featuring a robust IP67 waterproof design making it ideal for use in tough field environments.



Effortless Operation

Easy to operate with a large display which is quick to deliver accurate results.



Compact Portability

Lightweight kit, designed with a reusable reagent box for convenient storage, ensuring you can keep everything required for testing in one place, ideal for taking from site to site.



Cloud Connectivity

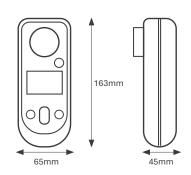
Compatible with Connect for easy results retrieval and data traceability for auditing and compliance purposes.

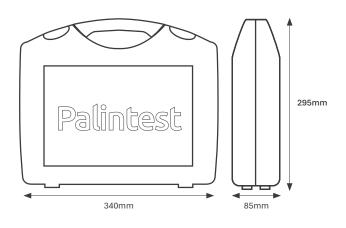
| Parameter | Test Range |
|--------------------|--------------|
| Ammonia Indophenol | 0.03–1 mg/L |
| Ammonia Indophenol | 0.2–12 mg/L |
| Ammonia Indophenol | 0.7–50 mg/L |
| Ammonia Nessler | 0.1–15 mg/L |
| Ammonia Nessler | 0.7–50 mg/L |
| Ammonia Nessler | 1.0–100 mg/L |



ORDERING INFORMATION PRODUCT CODE: LUM050

*Reagents must be purchased separately. See page 32 – 35 for reagent list.





| Instrument Type | Colorimeter offering direct-reading of pre-programmed test calibrations |
|-----------------------|---|
| Wavelengths | 620 nm, 465 nm |
| Accuracy | ±1 %T |
| Display | 226x138 pixels LCD with backlight |
| User Interface | Language free, on screen visual icons |
| Instrument Weight | 0.275kg |
| Kit Weight | 1.3kg |
| IP Rating & Standards | IP67 |
| Power Supply | 3x AA 1.5V Batteries |
| Connectivity | USB for data download and software updates |
| Memory Capacity | Up to 50 data sets |
| | |

LUMISO POOLTEST 3

Lumiso Pooltest 3 is ideal for monitoring of outdoor pools, covering the three main tests chlorine, pH and cyanuric acid.







Compact Portability

Lightweight kit design, with space for all accessories and reagents, allowing you to get testing straight away.



NSF Approved

NSF L1 certified for pools and spa/ hot tub testing for total chlorine, pH, and cyanuric acid, giving confidence in accurate results you can trust.



Effortless Operation

Simple, language free user interface making it easy to operate and quick to deliver results.



Compatible with Connect for easy results retrieval and data management.

| Parameter | Test Range |
|---|--------------|
| Free and Total Chlorine (Standard Range)* | 0.01–5 mg/L |
| Free and Total Chlorine (Extended Range) | 0.01–10 mg/L |
| Cyanuric Acid | 2–150 mg/L |
| рН | 6.5–8.4 |



ORDERING INFORMATION

UK/ Rest of World Kit - Product Code: LMP003

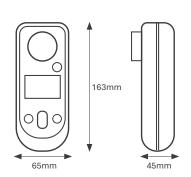
Americas Kit - Product Code: LMP103

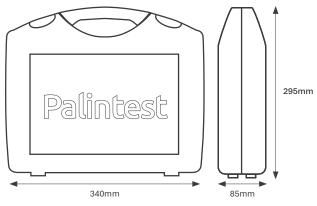
| Starter Pack Rea | gents Inc | luded |
|------------------|-----------|-------|
|------------------|-----------|-------|

Starter Pack Reagents Included

DPD1 (50 tests), DPD3 (50 tests), DPD XF (30 tests), DPD XT (30 tests), pH Phenol Red (50 tests), Cyanuric Acid (10 tests)

DPD XF (100 tests), DPD XT (100 tests), pH Phenol Red (100 tests), Cyanuric Acid (50 tests)





| Instrument Type | Colorimeter offering direct-reading of pre-programmed test calibrations |
|-----------------------|---|
| Wavelengths | 530 nm, 575 nm |
| Accuracy | ±1 %T |
| Display | 226x138 pixels LCD with backlight |
| User Interface | Language free, on screen visual icons |
| Instrument Weight | 0.275kg |
| Kit Weight | 1.3kg |
| IP Rating & Standards | IP67 |
| Power Supply | 3x AA 1.5V Batteries |
| Connectivity | USB for data download and software updates |
| Memory Capacity | Up to 50 data sets |

 $^{^{\}star}\text{Contains starter pack of reagents. To purchase replacement reagents see page 32-35 for ordering information.}$

LUMISO POOLTEST 6

The Lumiso Pooltest 6 provides simple and effective pool testing for service engineers and pool managers. Inclusive of all the tests required for a water balance calculation: alkalinity, bromine, calcium hardness, chlorine, cyanuric acid and pH.







Compact Portability

Lightweight kit design, with space for all accessories and reagents, allowing you to get testing straight away.



NSF Approved

NSF L1 certified for pools and spa/ hot tub testing for total chlorine, pH, and cyanuric acid, giving confidence in accurate results you can trust.



Effortless Operation

Simple, language free user interface making it easy to operate and quick to deliver results.



Cloud Connectivity

Compatible with Connect for easy results retrieval and data management.

| Parameter | Test Range |
|---|----------------|
| Free and Total Chlorine (Standard Range)* | 0.01–5 mg/L |
| Free and Total Chlorine (Extended Range) | 0.01–10 mg/L |
| рН | 6.5–8.4 |
| Cyanuric Acid | 2–150 mg/L |
| Total Alkalinity | 10–500 mg/L |
| Bromine (Standard Range) | 0.04–10 mg/L |
| Bromine (Extended Range)** | 0.04 – 20 mg/L |
| Calcium Hardness | 10–500 mg/L |

^{*}UK/ROW variant only.

^{**}US variant only.



ORDERING INFORMATION

UK/ Rest of World Kit - Product Code: LMP006

Americas Kit - Product Code: LMP106

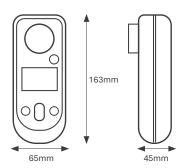
Starter Pack Reagents Included

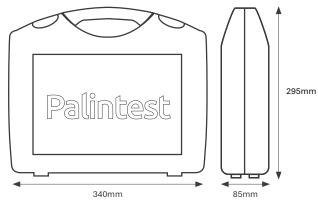
DPD1 (50 tests), DPD3 (50 tests), DPD XF (30 tests), DPD XT (30 tests), pH Phenol Red (50 tests), Total Alkalinity (10 tests), Cyanuric Acid (10 tests), Calcium Hardness (10 tests)

Starter Pack Reagents Included

DPD XF (100 tests), DPD XT (100 tests), pH Phenol Red (100 tests), Total Alkalinity (50 tests), Cyanuric Acid (50 tests), Calcium Hardness (50 tests)

 ${}^{*}\text{Contains starter pack of reagents. To purchase replacement reagents see page 32-35 for ordering information.}\\$





| Instrument Type | Colorimeter offering direct-reading of pre-programmed test calibrations |
|-----------------------|---|
| Wavelengths | 530 nm, 575 nm |
| Accuracy | ±1 %T |
| Display | 226x138 pixels LCD with backlight |
| User Interface | Language free, on screen visual icons |
| Instrument Weight | 0.275kg |
| Kit Weight | 1.3kg |
| IP Rating & Standards | IP67 |
| Power Supply | 3x AA 1.5V Batteries |
| Connectivity | USB for data download and software updates |
| Memory Capacity | Up to 50 data sets |

LUMISO POOLTEST 9

The Lumiso Pooltest 9 is the perfect solution for monitoring water quality in leisure centres and municipal swimming pools. It includes all the essential chemical parameter tests required for accurate water balance calculations along with key troubleshooting parameters.







Compact Portability

Lightweight kit design, with space for all accessories and reagents, allowing you to get testing straight away.



Rugged Construction

Robust construction and IP67 waterproof design to ensure it can be used in situ in any environment.



Effortless Operation

Simple, language free user interface making it easy to operate and quick to deliver results.



Cloud Connectivity

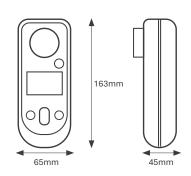
Compatible with Connect for easy results retrieval and data management.

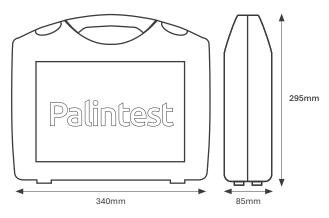
| Parameter | Test Range |
|--|----------------|
| Free and Total Chlorine (Standard Range) | 0.01–5 mg/L |
| Free and Total Chlorine (Extended Range) | 0.01–10 mg/L |
| рН | 6.5–8.4 |
| Cyanuric Acid | 2–150 mg/L |
| Total Alkalinity | 10–500 mg/L |
| Bromine (Standard Range) | 0.04–10 mg/L |
| Bromine (Extended Range) | 0.04 – 20 mg/L |
| Calcium Hardness | 10–500 mg/L |
| Iron MR | 0.03–5 mg/L |
| Copper | 0.07–5 mg/L |
| Phosphate | 0.05–4 mg/L |



ORDERING INFORMATION PRODUCT CODE: LMP009

Contains reagents DPD1, DPD3, DPD XF, DPD XT, pH Phenol Red, Total Alkalinity, Cyanuric Acid, Calcium Hardness, Iron, Copper and Phosphate (10 tests of each, 8 tests of phosphate). To purchase replacement reagents, see page 32-35 for ordering information.





| Instrument Type | Colorimeter offering direct-reading of pre-programmed test calibrations |
|-----------------------|---|
| Wavelengths | 530 nm, 575 nm |
| Accuracy | ±1 %T |
| Display | 226x138 pixels LCD with backlight |
| User Interface | Language free, on screen visual icons |
| Instrument Weight | 0.275kg |
| Kit Weight | 1.3kg |
| IP Rating & Standards | IP67 |
| Power Supply | 3x AA 1.5V Batteries |
| Connectivity | USB for data download and software updates |
| Memory Capacity | Up to 50 data sets |
| | |

Tablet Reagents

Ensure Optimal Performance with Genuine Palintest Reagents

To guarantee accuracy and achieve the best results with your Palintest photometers, always use genuine Palintest reagents. Our photometers are precisely calibrated to work with our unique reagent formulations.

| | | | Replacement Pack | |
|---|--|--|--|--------------------|
| Parameter | Reagent | Test Range | Part Code | Qty |
| | Free Chlorine, DPD1 | 0.01-5 mg/L Cl ₂ | AP011 | 250 tes |
| | Free Chlorine Extended Range, DPD XF | 0.01-10 mg/L Cl ₂ | AP013 | 250 tes |
| | DPD Oxystop | - | AP017 | 250 tes |
| Chlorine | Free and Total Chlorine, DPD1 and DPD3 | 0.01-5 mg/L Cl ₂ | AP031 | 250 tes |
| | Total Chlorine, DPD3 | 0.01-5 mg/L Cl ₂ | AP031/1 | 250 tes |
| | Free and Total Chlorine Extended Range, DPD XF and DPD XT | 0.01-10 mg/L Cl ₂ | AP033 | 250 tes |
| | Total Chlorine Extended Range, DPD XT | 0.01-10 mg/L Cl ₂ | AP033/1 | 250 tes |
| | Total Chlorine, DPD4 | 0.01-5 mg/L Cl ₂ | AP041 | 250 tes |
| | Chlorine HR | 1-250 mg/L Cl ₂ | AP162 | 250 tes |
| | DPD1 | 0.04-10 mg/L ClO ₂ | | 250 tes |
| Chlorine Dioxide | DPD Glycine | - | | 250 te |
| Ozone | DPD4 | 0.01-3 mg/L O₃ | | 250 te |
| Bromine | Total Bromine | 0.04-10 mg/L Br ₂ | | 250 te |
| Cyanuric Acid | Cyanuric Acid | 2-150 mg/L CYA | | 250 to |
| Syanunc Acid | | | | |
| Hydrogen Peroxide | Hydrogen Peroxide LR | 0.01-2 mg/L H ₂ O ₂ | | 250 te |
| | Hydrogen Peroxide HR | 1-100 mg/L H ₂ O ₂ | A AP087 D2 AP104 D2 AP105 N AP109 NO2 AP260 AP130 Zn AP148 AT085 AT090 AP152 AT170 A AP154 AP155 | 250 te |
| Nitrite | Nitrite LR Nitricol | 0.002-0.5 mg/L N | | 250 te |
| | Nitirite HR Nitriphot | 3-1500 mg/L NaNO ₂ | | 250 te |
| Н | Phenol Red | 6.5-8.4 | | 250 te |
| | Zinc (includes Zinc reagent, Zinc-Dechlor, and EDTA) | 0.03-2.25 mg/L Zn | | 250 te |
| linc | Zinc-Dechlor (used with Zinc test if chlorine is present in the sample) | - | | 250 te |
| | EDTA (Used with Zinc test if copper is present in the sample) | - | AT090 | 250 te |
| Ammonia | Ammonia 1N Indophenol | 0.03-1 mg/L N | AP152 | 250 te |
| | Seawater Conditioning Reagent | - | AT170 | - |
| Sulfate | Sulfate | 2-200 mg/L SO ₄ | AP154 | 250 te |
| | Iron LR | 0.01-1 mg/L Fe | AP155 | 250 te |
| | Iron MR | 0.03-5 mg/L Fe | AP292 | 250 te |
| ron | Citrate IR (Used with Iron MR test if nitrite or molybdate is present in the sample) | - | AT294 | 250 te |
| | Iron HR | 0.04-10 mg/L Fe | AP156 | 250 te |
| Nitrate | Nitratest | 0.6-20 mg/L N | AP163 | 200 te |
| Aluminium | Aluminium | 0.01-0.5 mg/L Al | AP166 | 250 te |
| Manganoso | Manganese LR | 0.001-0.03 mg/L Mn | AP017 AP031 AP0311 AP033 AP033/1 AP033/1 AP041 AP162 AP011 AT056 AP041 AP060 AP087 AP104 AP105 AP109 AP260 AP130 AP148 AT085 AT090 AP152 AT170 AP154 AP155 AP292 AT294 AP156 AP1731 AP156 AP179 AP156 AP179 AP188 AP177 AP179L* AP188 AP188 AP189 AP193L* AP197 AP252 AP254L* AP268 AP284 AP295* AP281 | 250 te |
| Manganese | Manganese HR | 0.06-5 mg/L Mn | AP174* | 250 te |
| Phosphate | Phosphate LR | 0.05-4 mg/L PO ₄ | AP177 | 200 te |
| luoride | Fluoride | 0.03-1.5 mg/L F | AP179L* | 200 te |
| _ | Free and Chelated Copper | 0.07-5 mg/L Cu | AP186 | 250 te |
| Copper | Free Copper | 0.07-5 mg/L Cu | AP187 | 250 te |
| Total Alkalinity | Total Alkalinity | 10-500 mg/L CaCO₃ | AP188 | 250 te |
| Potassium | Potassium | 0.3-12 mg/L K | AP189 | 250 te |
| Magnesium | Magnesium Hardness | 2-50 mg/L Mg | AP193L* | 250 te |
| Jrea | Urea | 0.25-5 mg/L | AP197 | 250 te |
| Calcium Hardness | Calcium Hardness | 0-500 mg/L CaCO₃ | | 250 te |
| otal Hardness | Total Hardness | 0 - 500mg/L CaCO ₃ | | 250 te |
| | Chloride | 0 - 50,000mg/L NaCl | | 250 to |
| | | | | 200 te |
| Chloride (Salt) | Nickel | 0.04-10 mg/1 Ni | | |
| Chloride (Salt) Nickel | Nickel COD Permanganate | 0.04-10 mg/L Ni | | |
| Chloride (Salt) Nickel COD Mn | COD Permanganate | 0.01-10 mg/L | AP295* | 250 te |
| Chloride (Salt) Nickel COD Mn Chromium (VI) Colour/ Turbidity | | , and the second | AP295* AP281 | 250 tes 250 tes |

| | | | | Compatible witl | 1 | | | |
|--------------------|---------------------|-------------------|-----------------|------------------|----------------------|----------------------|----------------------|--------------------|
| | Lumiso | | | | 1 | | | Lumiso |
| Lumiso Chlorine | Chlorine Dioxide | Lumiso Ammonia | Lumiso Ozone | Lumiso Expert | Lumiso Pooltest 3 | Lumiso Pooltest 6 | Lumiso Pooltest 9 | Pooltest Expert |
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Liquid Reagents

| Parameter | Reagent | Test Range | Part Code | Qty |
|---|---|---|-----------|------------|
| Chlorine | Free Chlorine, DPD1 (A+B solutions) | 0.01-5 mg/L Cl ₂ | AT015 | 1200 tests |
| Ontornic | Total Chlorine, DPD3 (C solution, to be used in conjunction with AT015) | 0.01-5 mg/L Cl ₂ | AT035 | 1200 tests |
| | Ammonia 12N/50N, Indophenol Method | 0.2-12 mg/L N 0.7-50 mg/L N | PL400 | 25 tests |
| | Ammonia 15N, Nessler Method | 0.1-15 mg/L N | PL420 | 25 tests |
| Ammonia | Ammonia 50N, Nessler Method | 0.7-50 mg/L N | PL424 | 25 tests |
| | Ammonia 100N, Nessler Method | 1.0-100 mg/L N | PL425 | 25 tests |
| Nitrate | Nitrate 30N | 0.2-30 mg/L N 0.7-150 mg/L NO ₃ | PL404 | 25 tests |
| Total Nitrogen | Total Nitrogen 30N (to be used in conjunction with PL404) | 1.2-30 mg/L N | PL408 | 25 tests |
| Phosphate | Phosphate 12P | 0.09-12 mg/L P | PL412 | 25 tests |
| Total Phosphorus | Total Phosphorus 12P | 0.09-12 mg/L P | PL416 | 25 tests |
| | COD/150 | 4-150 mg/L O ₂ | PL450 | 25 tests |
| | COD/400 | 9-400 mg/L O ₂ | PL452 | 25 tests |
| COD (Mercury free for low chloride samples) | COD/1000 | 14-1000 mg/L O ₂ | PL453 | 25 tests |
| | COD/2000 | 20-2000 mg/L O ₂ | PL454 | 25 tests |
| | COD/20000 | 200-20000 mg/L O ₂ | PL456 | 25 tests |
| | COD/150/M | 4-150 mg/L O ₂ | PL460 | 25 tests |
| COD (Containing mercury for moderate chloride samples) | COD/400/M | 9-400 mg/L O ₂ | PL462 | 25 tests |
| | COD/2000/M | 20-2000 mg/L O ₂ | PL464 | 25 tests |
| | COD/20000/M | 200-20000 mg/L O ₂ | PL466 | 25 tests |
| COD (Containing mercury for high chloride samples) | COD/150/2M | 4-150 mg/L O ₂ | PL461 | 25 tests |
| | COD/2000/2M | 20-2000 mg/L O ₂ | PL465 | 25 tests |
| | COD/20000/2M | 200-20000 mg/L O ₂ | PL467 | 25 tests |
| | | COD Concentration | | |
| COD Standard Solutions | COD Standard Solution, 125 mL | 800 mg/L | PL474 | - |

| | | | | Compatible wit | h | | | |
|--------------------|-------------------------------|-------------------|-----------------|------------------|----------------------|----------------------|----------------------|------------------------------|
| Lumiso Chlorine | Lumiso Chlorine Dioxide | Lumiso Ammonia | Lumiso Ozone | Lumiso Expert | Lumiso Pooltest 3 | Lumiso Pooltest 6 | Lumiso Pooltest 9 | Lumiso Pooltest Expert |
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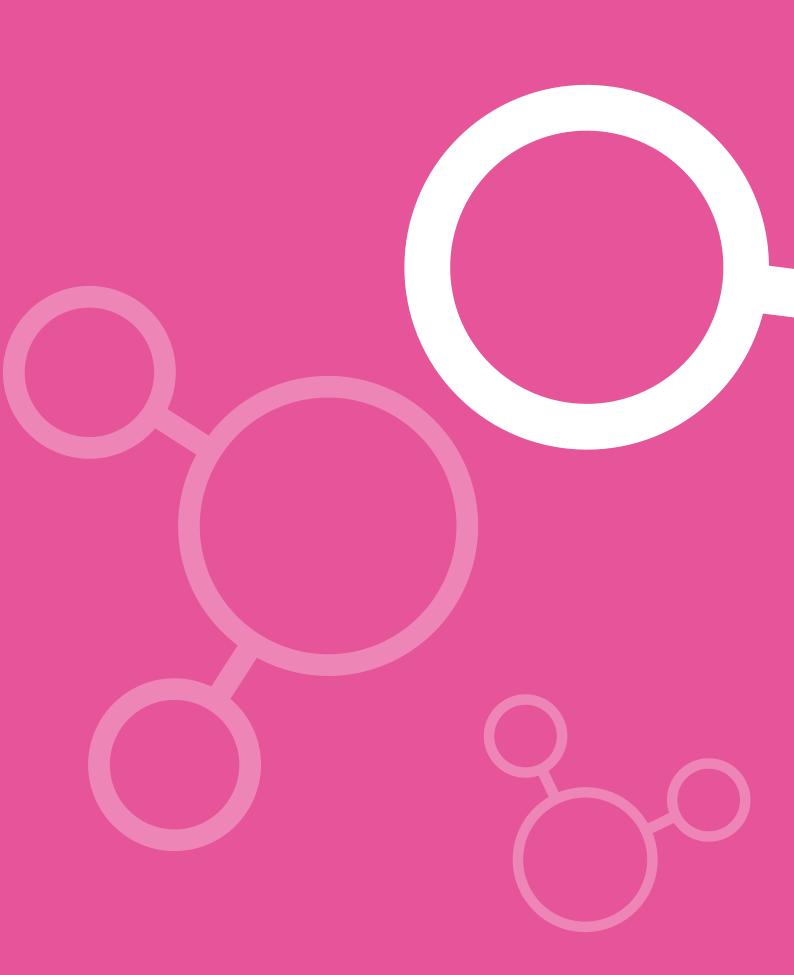


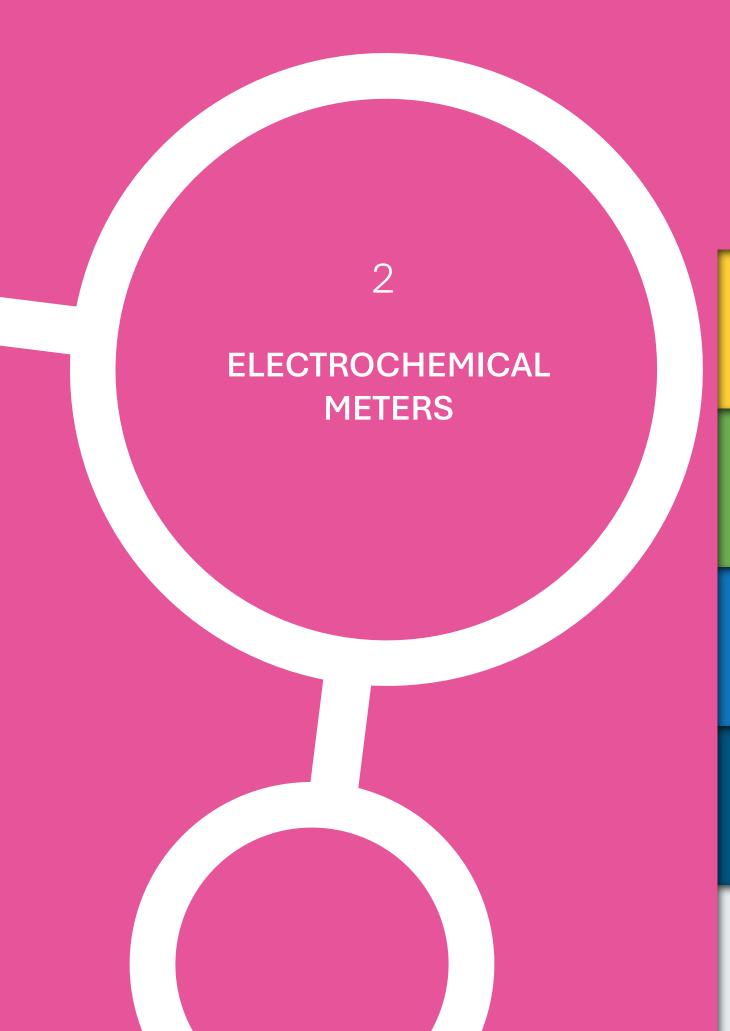


| Accessories | | Compatibility (Used with) | | | | | | | | |
|--|---------|---------------------------|-------------------------|----------------|--------------|---------------|-------------------|-------------------|-------------------|------------------------|
| | | Lumiso Chlorine | Lumiso Chlorine Dioxide | Lumiso Ammonia | Lumiso Ozone | Lumiso Expert | Lumiso Pooltest 3 | Lumiso Pooltest 6 | Lumiso Pooltest 9 | Lumiso Pooltest Expert |
| Accessories | Code | Lum | Lumi | Lumii | Lumi | Lumi | Lumi | Lumi | Lumi | Lumi |
| Lumiso Pool Check Standards Kit | LMC001 | | | | | | • | • | • | |
| Lumiso Chlorine, Chlorine Dioxide, Ozone check standard kit | LMC005D | • | • | | • | | | | | |
| Lumiso Ammonia Check Standards kit | LMC005N | | | • | | | | | | |
| Lumiso Expert Check Standard kit | LMCEXP | | | | | • | | | | |
| Lumiso Pooltest Expert Check Standard kit | LMCPTX | | | | | | | | | • |
| Replacement cuvette, Glass, 5 pack | PT555 | • | • | • | • | • | • | • | • | • |
| Replacement cuvette, Plastic, 5 pack | PT666 | • | • | • | • | • | • | • | • | • |
| Crush/stir rods, 10 pack | PT502 | • | • | • | • | • | • | • | • | • |
| Polishing cloth | PT399 | • | • | • | • | • | • | • | • | • |
| Dilution tube, up to 10x, 100 mL | PT512 | • | • | • | • | • | • | • | • | • |
| Deionised water, 500 mL | PT1250 | • | • | • | • | • | • | • | • | • |
| De-lon Pack | PT500 | • | • | • | • | • | • | • | • | • |
| USB Lead, 1m, Type A to C | PT749 | • | • | • | • | • | • | • | • | • |
| Absorbent cloths, 5 pack | PT122 | • | • | • | • | • | • | • | • | • |
| Lumiso Tubetest Adaptor | PT670 | | | • | | • | | | | |
| Wash bottle, 250 mL | PT516 | • | • | • | • | • | • | • | • | • |
| Graduated Bottle, 250 mL, Polypropylene | PT530 | • | • | • | • | • | • | • | • | • |
| Syringe, Luer Slip, 10 mL | PT369 | • | • | | • | • | • | • | • | • |
| Tubetest Heater, Standard (Includes Standard Tubetest heater, safety screen (PT590), anodized aluminium heater block, power lead)* | PT589 | | | | | • | | | | |
| Replacement safety screen from Standard Tubetest Heater (Compatible with PT589) | PT590 | | | | | • | | | | |
| Tubetest Rack | PT588 | | | • | | • | | | | |
| Thermometer -10C to +50C | PT683 | | | | | • | | | | |

*Tubetest Heater – Technical Specification

| Temperature range | 30-200°C |
|------------------------------|--|
| Temperature stability | < 1°C @ 100°C by 120 minutes test |
| Temperature uniformity | < 0.5°C @ 100°C |
| Temperature accuracy | < 1°C @ 100°C (@ 230 V / 50 Hz, 115 V / 60 Hz) |
| Temperature controller | Pre-calibrated |
| Display and Control | Two large sizes four-digit LED display |
| Temperature Calibration | Built-in and pre-calibrated |
| Heating rate | < 18 minutes from ambient to 100°C @ 230 V, 50 Hz |
| Heat power | 300 W |
| Over temperature cutoff | 212°C |
| Timer | 0-999 |
| Power | 120 V / 60 Hz; 230 V / 50 Hz, voltage variation < 2% |
| Cabin dimensions (W x D x H) | 102 x 78 x 46 mm |
| Dimensions | 310 x 250 x 80 mm |
| Weight without block | 3.3 kg |
| Certification | CE |





ELECTROCHEMICAL METERS

An electrochemical meter is a device which uses a potentiostat to measure and analyse chemical paramaters of target analytes through their electrochemical characteristics.

Both electrochemical meters and sensor based solutions employ the use of electrodes to measure a specific parameter.



| ELECTROCHEMIC | CAL METERS | 42 |
|---------------|---|----|
| | KEMIO DISINFECTION | 42 |
| | KEMIO HEAVY METALS | 48 |
| | KEMIO MULTI | 52 |
| | SENSORS & LIQUID REAGENTS | 56 |
| | KEMIO ACCESSORIES | 58 |
| Kemio | CHLORINE SENSOR SELECTOR | 60 |
| | MICRO 800 MULTIPARAMETER | 62 |
| 1 | PH, CONDUCTIVITY, TDS AND MULTIPARAMETER POCKET METERS | 66 |





KEMIO DISINFECTION

Kemio Disinfection is a robust portable water testing device which utilises electrochemical sensor technology for various disinfection parameters. Kemio Disinfection is widely adopted in drinking water and industrial applications and is typically used as a secondary application alongside online and inline chemical dosing systems to accurately verify disinfection levels at critical control points within a process.









Cloud Connectivity

Convenient results logging via the instrument or Palintest Connect equips users with traceable and auditable data, essential for demonstrating compliance.



Effortless Simplicity

The user-friendly interface features clear, easy-to-follow onscreen instructions, simplifying training and promoting seamless product adoption.



Rugged Durability

Designed for portability, this lightweight digital test kit is glassware-free and the instrument is certified IP67 waterproof, making it ideal for testing in a range of challenging environments.



Reliable Precision

This versatile solution is suitable for all sample types, including coloured, turbid, and particlerich water, guaranteeing precise results even with cloudy or dirty samples.





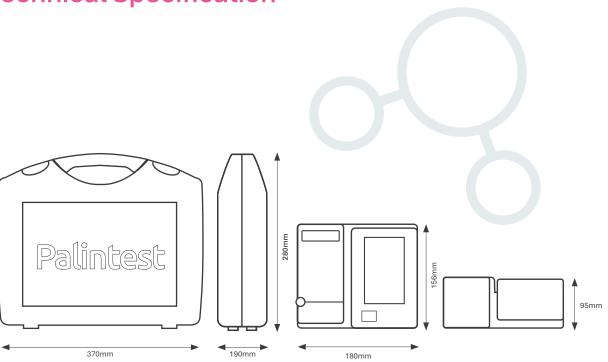
Chlorite Hard Case - Kit Contents



ORDERING INFORMATION

PRODUCT CODE: KEMH15DIS

*Includes 200 Chlorine Dioxide/Chlorite sensors and 100 Chlorine sensors.



| Measuring System | Chronoamperometry |
|-------------------|---|
| Temperature Range | Ambient range: 0 °C-50 °C |
| Display | High Clarity LCD Screen |
| 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 |
| Instrument Weight | 1.012kg |
| Kit Weight | 3.84kg |
| Battery | 2399mAh NiMH Rechargeable Battery Pack |
| Power Supply | USB Power |
| Rating | IP67 |

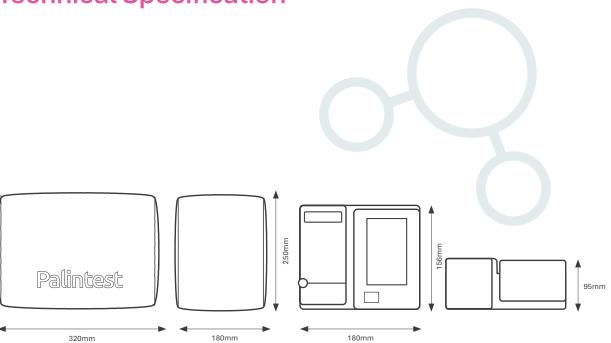
Soft Case - Kit Contents



ORDERING INFORMATION

PRODUCT CODE: KEMS15DIS

Sensors ordered separately – see page 56 for order details.



| Measuring System | Chronoamperometry |
|-------------------|---|
| Temperature Range | Ambient range: 0 °C-50 °C |
| Display | High Clarity LCD Screen |
| 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 |
| Instrument Weight | 1.012kg |
| Kit Weight | 2.07kg |
| Battery | 2399mAh NiMH Rechargeable Battery Pack |
| Power Supply | USB Power |
| Rating | IP67 |







Cloud Connectivity

Convenient results logging via the instrument or Connect equips users with traceable and auditable data, essential for demonstrating compliance.



Rugged Durability

The kit is designed to be lightweight and durable, making it suitable for use in the most challenging or remote environments anywhere in the world.



Trusted Reliability

Effortless Simplicity

Results can be obtained in as little as three minutes, enabling a rapid response

to potential contaminated water sources,

ensuring timely intervention and mitigation.

Accurate and precise testing provides peace of mind and confidence in the reliability of results, eliminating the delays associated with laboratory test results and ensuring immediate decision-making.







Soft Case - Kit Contents

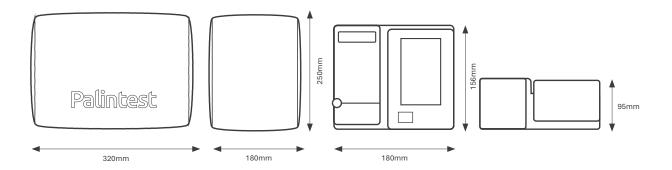


ORDERING INFORMATION

PRODUCT CODE: KEMS15HM

Sensors ordered separately – see page 56 for order details.





| Measuring System | Anodic Stripping Voltammetry (ASV) |
|-------------------|---|
| Temperature Range | Ambient range: 0 °C-50 °C |
| Display | High Clarity LCD Screen |
| 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 |
| Instrument Weight | 1.012kg |
| Kit Weight | 2.07kg |
| Battery | 2399mAh NiMH Rechargeable Battery Pack |
| Power Supply | USB Power |
| Rating | IP67 |





Effortless Simplicity

Comprehensive contaminant detection combining the capabilities of both Kemio Heavy Metals and Kemio Disinfection enabling testing across a wide range of key parameters without the need for multiple instruments.



Cloud Connectivity

Convenient results logging via the instrument or Connect equips users with traceable and auditable data, essential for demonstrating compliance.



Reliable Precision

Swift and precise results in 60 seconds for disinfection parameters and 3 minutes for heavy metals, facilitating rapid identification and response.



Trusted Reliability

Accurate and precise testing provides peace of mind and confidence in the reliability of results, eliminating the delays associated with laboratory test results and ensuring immediate decision-making.



Soft Case - Kit Contents

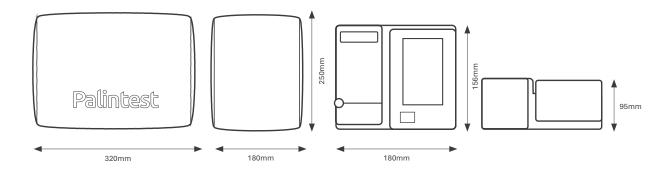


ORDERING INFORMATION

PRODUCT CODE: KEMS15MUL

Sensors ordered separately – see page 56 for order details.



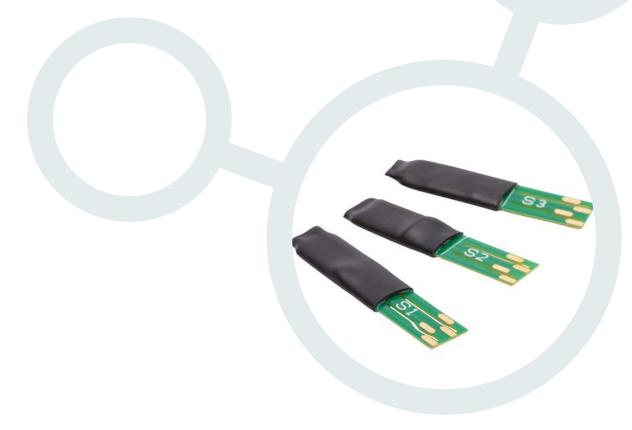


| Measuring System | Anodic Stripping Voltammetry (ASV) and Chrono-amperometry |
|-------------------|---|
| Temperature Range | Ambient range: 0 °C-50 °C |
| Display | Full colour TFT with projected capacitive touch |
| User Interface | Touchscreen |
| Language Options | English, French, Spanish and Chinese (Simplified) |
| Connectivity | USB C |
| Information Input | Barcode Scanner, on- screen keyboard/keypad |
| Data Storage | 10,000 test results and information |
| Instrument Weight | 1.012kg |
| Kit Weight | 2.07kg |
| Battery | 2399mAh NiMH Rechargeable Battery Pack |
| Power Supply | USB Power |
| Rating | IP67 |

Sensors & Liquid Reagents

| | | | | | Co | mpatible v | with | | |
|-----------------------|-------------------------------------|-----------------|-------------------|-------------------|-----------------|--------------|-------------|----------------|--|
| Parameter | Sensor / Consumable | Range | Temp | Part Code | Qtys | Kemio DIS | Kemio HM | Kemio Multi | |
| | Ammonia Low Range | 0.2-2 mg/L | 5-50 °C | KEM21ALR | 100 | • | | • | |
| Ammonia | Ammonia High range | 0.5-15 mg/L | 5-30 °C | KEM21AHR | 100 | • | | • | |
| A | Total Arsenic | 2-250 μg/L | 10-35 °C | KEM100M-TAS | 100 | | | | |
| Arsenic | Speciated Arsenic | 2-250 μg/L | 10-35 °C | KEM100M-SAS | 100 | | | | |
| Bromine | Bromine | 0.2-10 mg/L | 5- 30°C | KEM21BRS | 100 | • | | • | |
| Cadmium | Cadmium | 0.2-10 mg/L | 5 - 35°C | KEM22MCD | 10 | | • | • | |
| | Free Chlorine FHR | 0.1-100 mg/L | 2 - 20°C | KEM21FHR | 100 | | | | |
| | FIEE CHROTTIE FAN | 0.1-100111g/L | 2-20-0 | KEM25FHR | 500 | | | | |
| | Free and Total Chlorine CLO | 0.02-10 mg/L FC | 5-30 °C | KEM21CLO | 100 | | | | |
| Chlorine | Free and lotal Chlonne CLO | 0.02-75 mg/L TC | 5-30 °C | KEM25CLO | 500 | | | | |
| Chlorine | Free and Total Chlorine CHR | 0.1-25 mg/L FC | 5 - 25°C | KEM21CHR | 100 | | | | |
| | 1-500 mg/L TC 5 - 30°C | 5 - 30°C | KEM25CHR | 500 | | | | | |
| | Free and Total Chlorine CLT | 0.1-25 mg/L FC | 2 1500 | KEM21CLT | 100 | | | | |
| | Free and local Chlorine CE | 1-500 mg/L TC | 2-10-0 | 2 - 15°C KEM25CLT | KEM25CLT | 500 | | | |
| | | | | KEM20CDX | Starter Pack | | | | |
| | Chlorine Dioxide & Chlorite (CDX) | 0.02-50 mg/L | 5 - 40°C | KEM21CDX | 100 | | | | |
| Chlorine Dioxide & | | | | KEM25CDX | 500 | | | | |
| Chlorite | CR-1 Reagent | - | - | PT546 | 25 | | | | |
| | CR-2 Reagent | - | - | PT547 | 25 | | | | |
| | Glycine Reagent | - | - | PT549 | 25 | | | | |
| | | | | KEM20CDX | Starter Pack | | | | |
| Chlorine | Chlorine Dioxide | 0.02-50 mg/L | 5 - 40°C | KEM21CDX | 100 | | | | |
| Dioxide | | | | KEM25CDX | 500 | | | | |
| | Glycine Reagent | - | - | PT549 | 25 | | | | |
| Copper | Copper | 100-2000µg/L | 5 - 35°C | KEM22MCU | 10 | | • | • | |
| Lead | Lead | 1-1000 mg/L TC | 5 - 35°C | KEM22MPB | 10 | | • | • | |
| | Peracetic Acid (PAA) | 5-2000mg/l | 5 - 30°C | KEM21PAA | 100 | • | | • | |
| | Peracetic Acid (PAA) 5-2000mg/L 5 - | 0 - 30-0 | KEM25PAA | 500 | | | | | |
| Peracetic | Peracetic Acid Low Range | 0.02-10.mg/l | 2-30∘€ | KEM21PAL | 100 | | | | |
| Acid | (PAL) 0.02-10 mg/L | (PAL) | 0.02-10 mg/L 2-30 | 2-30°C | KEM25PAL | 500 | | | |
| | Peracetic Acid High Range | 400-4000mg/l | 10-60 °C | KEM21PAH | 100 | | | | |
| | (PAH) | 400-4000mg/L | 10-00 10 | KEM25PAH | 500 | | | | |
| Monochloramine | Monochloramine | 0.2-5 mg/L | 5-50 °C | KEM21MOA | 100 | • | | • | |





ELECTROCHEMICAL METERS ACCESSORIES



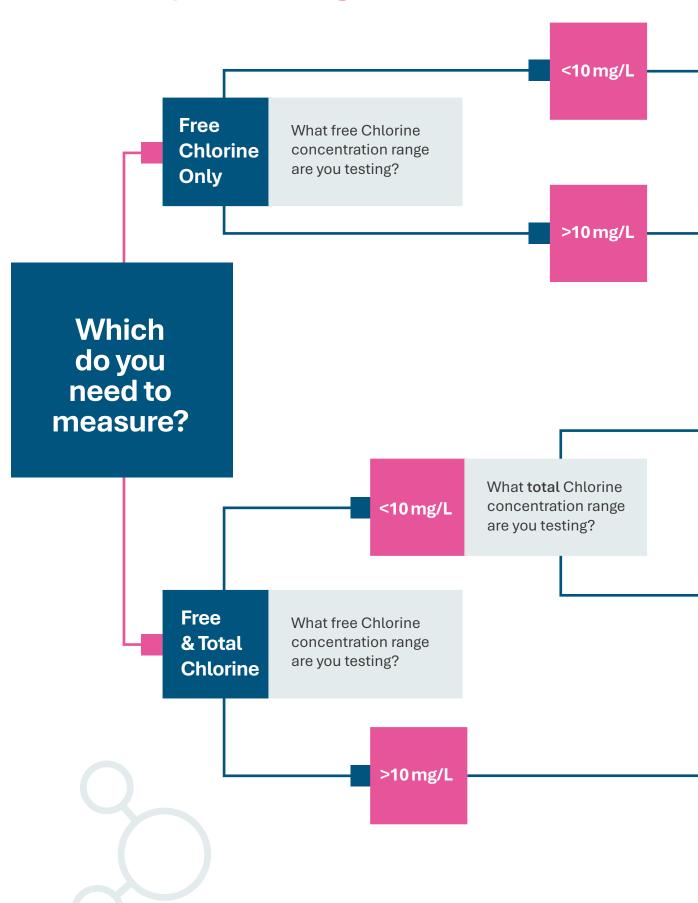
Accessories

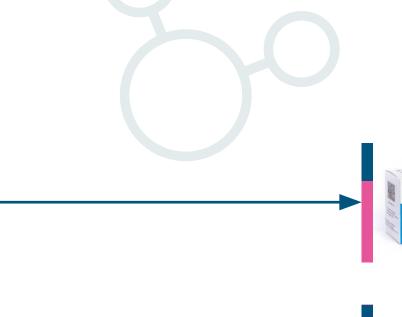
| | | Cor | mpatibility (Used w | rith) |
|--|-------------|-----------------------|-----------------------|----------------|
| Accessories | Code | Kemio Disinfection | Kemio Heavy Metals | Kemio Multi |
| Kemio Check Standards | KEMC10 | • | • | • |
| Kemio Stylus | KEM306 | • | • | • |
| Kemio Protective Case | KEM307 | • | • | • |
| USB - C Cable | PT749 | • | • | • |
| Replacement Sample Vessel (Disinfection) | KEM308 | • | | • |
| Replacement Sample Vessel (Heavy Metals) | KEM313 | | • | • |
| Contact Pad Replacement Kit | KEM10CTCPAD | • | • | • |
| Replacement Battery Pack | KEM10BATT | • | • | • |
| *Kemio Degassing Vessel, Hose, and Filter Disc | PT553 | • | | • |
| *Degassing Replacement Filter | PT556 | • | | • |
| *Degassing Pump | PT554 | • | | • |
| Sample Vessle (Heavy Metals) | KEM323 | | • | • |
| Ion Exchange (5 pack) | KEM324 | | • | • |
| Kemio USB Power Supply Unit | PT745 | • | • | • |

^{*}Degassing products are additional products needed for Chlorite testing, these can be used as replacements as additional accessories.



Select the most suitable Chlorine sensor for your testing needs





CLO sensors

Free Cl = 0.02 - 10 mg/L Total Cl = 0.02 - 75 mg/L Temp range = 5-30 °C



FHR sensors

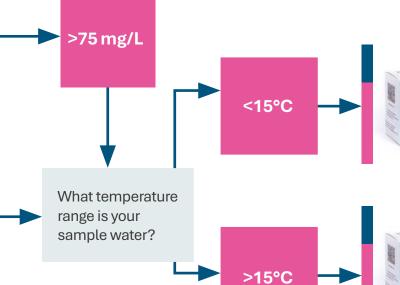
Free Cl = 0.1 - 100 mg/L Temp range = 2 - 20 °C





CLO sensors

Free Cl = 0.02 - 10 mg/L Total Cl = 0.02 - 75 mg/L Temp range = 5 - 30 °C



Fr

CLT sensors

Free Cl = 0.02 - 10 mg/L Total Cl = 0.02 - 75 mg/L Temp range = 2 - 35 °C



CHR sensors

Free Cl = 0.1 - 25 mg/L Total Cl = 1 - 500 mg/L Temp range (free) = 5 - 25 °C Temp range (total) = 5 - 30 °C

62





Effortless Simplicity

The Micro 800 can measure pH, ORP, conductivity, TDS and temperature, making it a versatile instrument, ensuring users can rely on a single device for various testing needs, enhancing efficiency and reducing the need for multiple instruments.



Field Accuracy

Built-in reminders for calibration, including standard recognition and temperature compensation, help maintain measurement accuracy and reliability.



User Efficiency

The user-friendly interface simplifies switching between measurement modes and calibration processes, ensuring quick and effective operation, saving time and reducing the likelihood of errors.



Built-in Traceability

With the ability to store up to 500 data sets, including time and date stamps and calibration records the Micro 800 ensures thorough documentation and traceability.

TESTS FOR

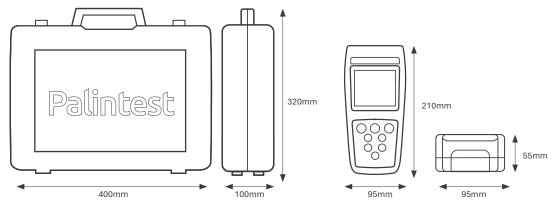
| Parameter | Test Range |
|------------------------------|-------------------------------------|
| рН | -2.00 – 16.00 |
| ORP | -2000 to +2000 mV |
| Conductivity | 0 to 200,000 μS/cm 0 - 200 mS/cm |
| Total Dissolved Solids (TDS) | 0 - 200,000 mg/L 0 – 200 ppt |
| Temperature | -10 to +110°C |

Kit Contents



ORDERING INFORMATION

PRODUCT CODE: PT1350



| Instrument Weight | 0.34kg |
|-------------------|--------|
| Kit Weight | 2.20kg |

| Parameter | Resolution | Accuracy |
|------------------------------|--|---|
| рН | 0.01 | ±0.01 |
| ORP | 0.1 mV (up to ±999.9), 1 mV Above | ± 0.2 mV or $\pm 0.5\%$, 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 ±1μS/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 |

| | | Compatibility with | | | |
|---|----------|----------------------|---------------------|-------------------------------|---------------------------------|
| Consumables | Code | Pocket Sensor TDS | Pocket Sensor pH | Pocket Sensor Conductivity | Pocket Sensor Multiparameter |
| pH 4 Buffer Solution, 500mL (pH 4.01) | PT105/1 | | • | | • |
| pH 10 Buffer Solution, 500mL (pH 10.00) | PT105/2 | | • | | • |
| pH 7 Buffer Solution, 500mL (pH 7.00) | PT105/3 | | • | | • |
| ORP Calibration Standard, 500mL (255 mV) | PT1252 | | • | | • |
| High Range Conductivity Stand-ard, 500mL (12.88 mS/cm) | PT142/2 | | | • | • |
| Mid-Range Conductivity Stand-ard, 500mL (1412 μ S/cm) | PT142/3 | | | • | • |
| Low Range Conductivity Stand-ard, 500mL (74 µS/cm) | PT142/4 | | | • | • |
| TDS Calibration Standard, 500mL (3000 ppm) | PT142/8 | • | | | • |
| TDS Calibration Standard, 500mL (300 ppm) | PT142/9 | • | | | • |
| TDS Calibration Standard, 500mL (50 ppm) | PT142/10 | • | | | • |
| Zero Oxygen Solution, 500mL | PT125/3 | • | • | • | • |
| Electrode Care Pack, pH | PT105/4 | • | • | • | • |
| Deionised Water, 500mL | PT1250 | • | • | • | • |

| Accessories | Product Code | Compatible with Micro 800 |
|---------------------------|--------------|---------------------------|
| Replacement pH Electrode | PT1330PH | • |
| Replacement ATC Probe | PT1330ATC | • |
| Replacement ORP Probe | PT1330ORP | • |
| Replacement CON/ATC Probe | PT1340CON | • |







Functional Versatility

Available as dedicated instruments for pH, conductivity and Total Dissolved Solids plus a convenient multiparameter version for even greater efficiency across a range of physical parameters.



Compact Portability

Light and compact pocket meters are certified IP67 waterproof and are designed specifically for use in challenging environments.



Effortless Simplicity

The large LCD display shows results in a clear, simplistic format and details automatic temperature compensation and calibration standards recognition to make it simplistic to read results.



Rugged Durability

A great choice for fast monitoring of physical parameters with user friendly replaceable sensors to ensure product longevity.

TESTS FOR

| Parameter | Test Range |
|------------------------------|--|
| рН | 0.00-15.00 |
| Conductivity | 0 – 20,000 µS/cm 0 – 20 mS/cm (Auto-ranging) |
| Total Dissolved Solids (TDS) | 0 - 2,000 mg/L 0 – 10 ppt (Auto-ranging) |
| Temperature | 0.0-50°C |

Kit Contents



ORDERING INFORMATION

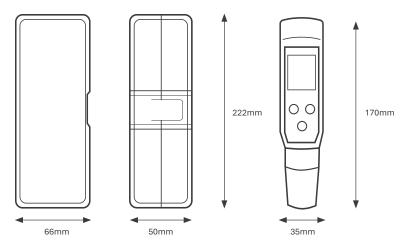
PRODUCT CODES:

pH Pocket Meter (PT155)

TDS Pocket Meter (PT153T)

Conductivity Pocket Meter (PT157)

Multiparameter Pocket Meter (PT162)



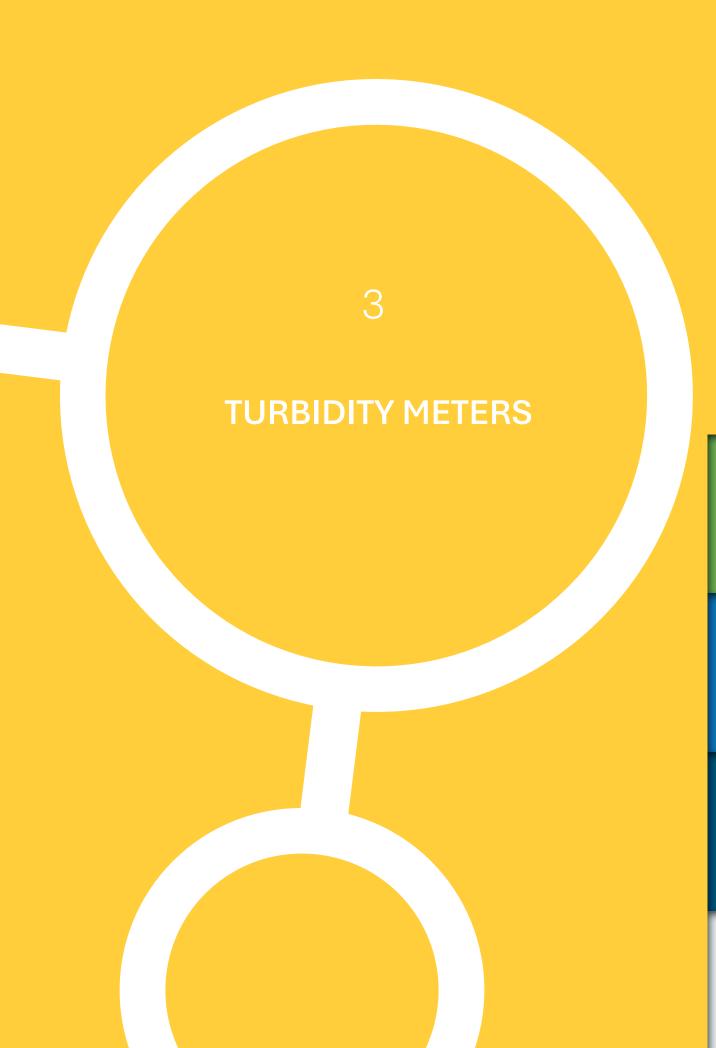
| Instrument Weight | 0.1kg |
|-------------------|-------|
| Kit Weight | 0.2Kg |

| Parameter | Resolution | Accuracy |
|------------------------------|--|---|
| рН | 0.01 | ±0.01 |
| Conductivity | 1mV | ±1% of full scale or ±1µS/cm, whichever is greater |
| Total Dissolved Solids (TDS) | 1 (0 – 999 mg/L) 0.01 (1.0 – 10.00 ppt) | ±1% of full scale or ±1 mg/L, whichever is greater |
| Temperature | 0 0.1°C | ±0.5°C |

| | | Compatibility with | | | |
|---|----------|----------------------|---------------------|-------------------------------|---------------------------------|
| Consumables | Code | Pocket Sensor TDS | Pocket Sensor pH | Pocket Sensor Conductivity | Pocket Sensor Multiparameter |
| pH 4 Buffer Solution, 500mL (pH 4.01) | PT105/1 | | • | | • |
| pH 10 Buffer Solution, 500mL (pH 10.00) | PT105/2 | | • | | • |
| pH 7 Buffer Solution, 500mL (pH 7.00) | PT105/3 | | • | | • |
| ORP Calibration Standard, 500mL (255 mV) | PT1252 | | • | | • |
| High Range Conductivity Stand-ard, 500mL (12.88 mS/cm) | PT142/2 | | | • | • |
| Mid-Range Conductivity Stand-ard, 500mL (1412 µS/cm) | PT142/3 | | | • | • |
| Low Range Conductivity Stand-ard, 500mL (74 μ S/cm) | PT142/4 | | | • | • |
| TDS Calibration Standard, 500mL (3000 ppm) | PT142/8 | • | | | • |
| TDS Calibration Standard, 500mL (300 ppm) | PT142/9 | • | | | • |
| TDS Calibration Standard, 500mL (50 ppm) | PT142/10 | • | | | • |
| Zero Oxygen Solution, 500mL | PT125/3 | • | • | • | • |
| Electrode Care Pack, pH | PT105/4 | • | • | • | • |
| Deionised Water, 500mL | PT1250 | • | • | • | • |

| | | Compatibility with | | | |
|---------------------------------|----------|----------------------|---------------------|-------------------------------|---------------------------------|
| Accessories | Code | Pocket Sensor TDS | Pocket Sensor pH | Pocket Sensor Conductivity | Pocket Sensor Multiparameter |
| Replacement Sensor TDS | PT153TDS | • | | | |
| Replacement Sensor pH | PT155PH | | • | | |
| Replacement Sensor Conductivity | PT157CON | | | • | |
| Replacement Sensor Multi | PT162M | | | | • |





TURBIDITY METERS

used in water treatment plants, distribution networks, water sampling teams, environmental monitoring, and various industries to ensure water quality and compliance with safety standards. It uses the principle of nephelometry to determine the cloudiness of a water sample.



TURBIDITY EXPERT 74 TURBIDITY EXPERT & LUMISO CHLORINE KIT 78 ACCESSORIES 82





TURBIDITY EXPERT

Turbidity Expert is a rugged portable turbidity meter that uses principle of nephelometry to determine turbidity or cloudiness of a water sample. Turbidity Expert delivers clarity through accuracy, simplicity and connectivity- ensuring users make confident decisions in the field. The field replaceable optics allows users to maintain continuity in testing even in harsh field conditions.







Intuitive Interface

Graphical touch screen with on screen instructions that simplifies testing and user calibration ensuring consistent results across teams and reduced training time.



Rugged Construction

Built for the field, Turbidity Expert is IP67 waterproof and IK08 impact-resistant, with a secure optic cap. The optics is replaceable in field, minimizing need to return for repair.



Reliable Performance

Achieves ±0.01 NTU accuracy with patented optics that limit stray light to 0.02 NTU, ensuring clarity even at low turbidity. The 1 NTU verification ensures confidence in every test.



Cloud Connectivity

Real-time results and cloud data management for timely decisions using Wifi or QR code. Add GPS coordinates to pinpoint testing locations and visualise hotspots.

TESTS FOR

| Parameter | Test Range |
|-----------|----------------|
| Turbidity | 0.01 – 1000NTU |



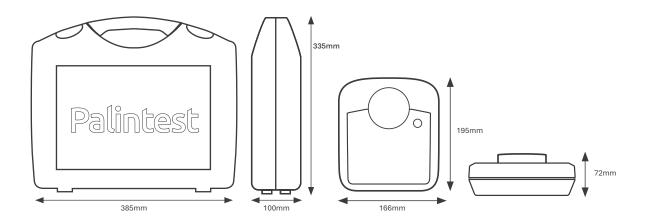


4 SDVB Standards *(not included in LTH090WS)

ORDERING INFORMATION

PRODUCT CODE: LTH090 PRODUCT CODE: LTH090WS*

Technical Specification



| 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 |
| Kit Weight | 2.02kg |
| Instrument 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 |





TURBIDITY EXPERT & LUMISO CHLORINE KIT

The Turbidity Expert & Lumiso
Chlorine Kit is a portable, rugged
kit for reliable chlorine and
turbidity analysis. Ideal for drinking
water, wastewater, and industrial
applications, it ensures accurate and
dependable results in the field.







Intuitive Interface

Graphical touch screen with on screen instructions that simplifies testing and user calibration ensuring consistent results across teams and reduced training time.



Rugged Construction

Built for the field, Turbidity Expert is IP67 waterproof and IK08 impact-resistant, with a secure optic cap. The optics is replaceable in field, minimizing need to return for repair.



Reliable Performance

Achieves ±0.01 NTU accuracy with patented optics that limit stray light to 0.02 NTU, ensuring clarity even at low turbidity. The 1 NTU verification ensures confidence in every test.



Cloud Connectivity

Real-time results and cloud data management for timely decisions using Wifi or QR code. Add GPS coordinates to pinpoint testing locations and visualise hotspots.

TESTS FOR

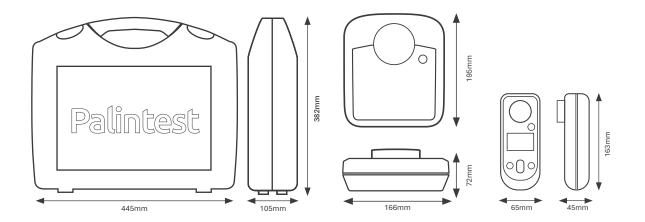
| Parameter | Test Range |
|-----------|----------------|
| Turbidity | 0.01 – 1000NTU |
| Chlorine | 0-250mg/L |



ORDERING INFORMATION

PRODUCT CODE: LUM7051
PRODUCT CODE: LUM7051WLC*

Technical Specification



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 |
| Kit Weight | 3.03kg |
| Instrument 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 |
| | |

Lumiso Chlorine Specifications

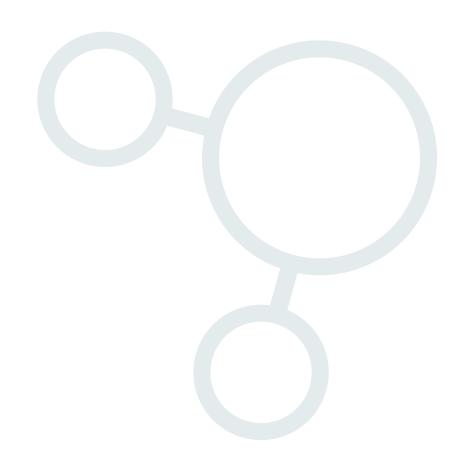
| Instrument Type | Colorimeter offering direct-reading of pre-programmed test calibrations |
|-------------------|---|
| Peak Wavelengths | 530 nm |
| Accuracy | ± 1.0% T |
| Display | 226 × 138 pixels LCD with backlight |
| User Interface | Language free, on screen visual icons |
| Size (WxLxH) | 163 mm x 70 mm x 45 mm |
| Instrument Weight | 275 g |
| IP Rating | IP67 |
| Power Supply | 3 x AA 1.5V Batteries |
| Connectivity | USB for data download and software updates |
| Data Sets | Up to 50 data sets |





Accessories

| Accessories | Product Code |
|----------------------------------|--------------|
| Replaceable Optics Kit | PT128 |
| SDVB Calibration Standards Kit | LTC090 |
| Crush Rods, Pack of 10 | PT502 |
| Syringe 10 mL | PT369 |
| Silicone Oil, 10 mL | PT120 |
| USB C Charging Cable | PT749 |
| Dilution Tube | PT512 |
| Polishing Cloth | PT399 |
| Glass Test Tubes, Pack of 5 | PT555 |
| Turbidity Expert Soft Pouch Case | ZX0117 |







MICROBIOLOGICAL KITS

Our microbiological testing kits are designed to detect coliforms in water samples using the principle of membrane filtration, making them perfect for humanitarian water applications.

Designed for both immediate response and long-term monitoring, we offer a range of solutions to suit various water quality testing needs.



| MICROBIOLOGIC | AL KITS | |
|---------------------------|--|-----|
| | WAGTECH POTATECH+ | 88 |
| H.F. | WAGTECH POTALAB+ | 94 |
| H | WAGTECH POTALAB WITHOUT ARSENIC | 100 |
| | WAGTECH POTACHECK | 104 |
| | WAGTECH POTATEST DUAL | 108 |
| | WAGTECH POTAKIT | 110 |
| Polin | WAGTECH POTATEST CLASSIC | 116 |
| Palintest pulnest rulered | WAGTECH CONSUMABLES | 122 |
| | MICROBIOLOGICAL TESTING ACCESSORIES | 124 |
| | WAGTECH KIT COMPARISON | 126 |







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 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 |
|-----------------|--|--|
| Category | 1 200 200 200 200 200 200 200 200 200 20 | |
| | Ammonia | 0.03–1 mg/L N |
| | Free Chlorine | 0.01 – 5 mg/L $\mathrm{Cl_2}$ |
| Chemical | Total Chlorine | 0.01 – $5~{\rm mg/L~Cl_2}$ |
| | Nitrate | 0.6–20 mg/L N |
| | Nitrite | 0.002–0.5 mg/L N |
| | Turbidity | 0.01-1000 NTU |
| | рН | 0.00-15.00 |
| Physical | Conductivity | 0 – 20,000 μS/cm 0 – 20 mS/cm (Auto-ranging) |
| | Total Dissolved Solids (TDS) | 0 - 2,000 mg/L 0 – 10 ppt (Auto-ranging) |
| | Temperature | 0.0-50°C |
| Microbiological | Thermotolerant/Faecal Coliforms | >1CFU/ 100mL |
| Microbiological | Total Coliforms | >1CFU/ 100mL |
| Other | Additional parameters with reagents | See pg. 32 for other parameters |
| | | |



ORDERING INFORMATION

PRODUCT CODE: PTW10481

Wagtech Incubator Kit

- Wagtech Incubator
- 20 Petri dishes
- 3 Lead Acid battery
- 4 Mains charger with international adaptors
- 5 Vehicle charger
- 6 External battery leads

Membrane Filtration Unit

- Bronze disc
- Pistol grip vacuum pump
 with no-kink silicone tubing
- 9 5 Media Measuring Devices (MMDs)
- 38.1g Membrane Lauryl Sulphate Broth
- 11 5 Pasteur pipettes
- 12 Hand lens
- 13 Forceps
- 14 200 sterilised and sealed membrane filters
- 200 absorbent pads
- 16 Absorbent pad dispenser
- 17 Steel sampling cup
- 18 Sampling cable

Photometer (Lumiso Expert)

- 19 Lumiso Expert Photometer
- 20 Photometer reagents for 200 tests: Free Chlorine, Total Chlorine, Ammonia, Nitrite, Nitrate

Turbidity Expert

- 21 Turbidity Expert
- 22 SDVB calibration standards
- 23 Silicone oil
- 24 Cleaning/oiling cloth

Pocket Meter for pH

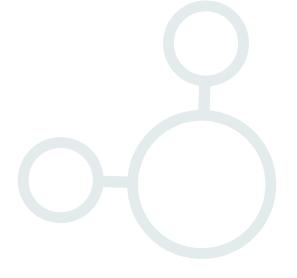
- 25 Pocket Meter
- 26 Calibration buffers

Pocket Meter for Conductivity

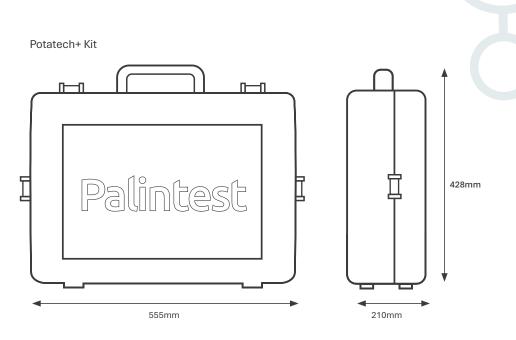
- 27 Pocket Meter
- 28 Calibration standard

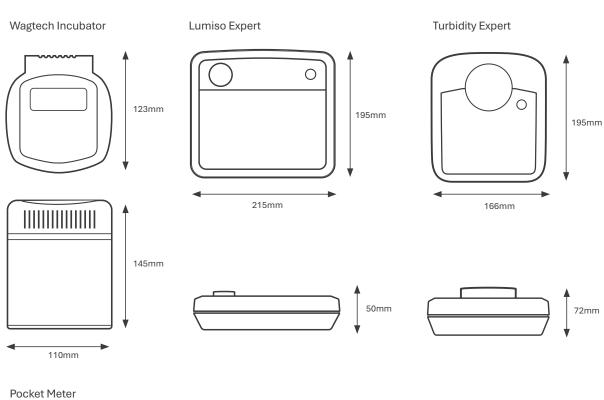
Additional Accessories

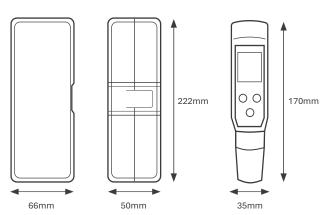
- 29 250 mL Beaker
- 30 Dilution tube
- 31 De-ion pack
- 32 User Manual
- 33 Sampling Tube
- 34 Sample Curvettes



Technical Specification







Potatech+ Kit Specifications

| Kit Microbiological Capacity | Single incubator with consumables for 200 tests for Thermotolerant/Faecal Coliforms or Total Coliforms. |
|---------------------------------|---|
| Physico-Chemical Parameters | Ammonia, Free and Total Chlorine, Nitrate, Nitrite, Turbidity, pH, Conductivity, Total Dissolved Solids. Additional parameters available. |
| Kit Size & Weight | 55.5 x 42.8 x 21.1 cm, 13 kg |

Potatech+ 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 |
| | |

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 |

Pocket Meter Specifications

| Instrument Size & Weight | 35mm x 170mm, 0.34kg |
|--------------------------|-----------------------------|
| Kit Size & Weight | 66mm x 50mm x 222mm, 2.20kg |





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.







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 |
|--|-------------------------------------|-------------------------------------|
| | Ammonia | 0.03–1 mg/L N |
| | Arsenic | 2-250 ug/L (ppb) |
| Chemical parameters | Free Chlorine | 0.01 – $5~{ m mg/L~Cl}_2$ |
| (Potalab (C) case with | Total Chlorine | 0.01 – $5~{ m mg/L~Cl}_2$ |
| Kemio HM for arsenic) | Fluoride | 0.03–1.5 mg/L F |
| | Nitrate | 0.6–20 mg/L N |
| | Nitrite | 0.002–0.5 mg/L N |
| | Turbidity | 0.01-1000 NTU |
| | рН | -2.00 – 16.00 |
| | ORP | -2000 to +2000 mV |
| Physical parameters (Potalab (C) case) | 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 |

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:

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

Membrane Filtration Unit

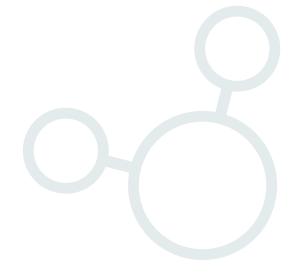
- 5 Bronze disc
- 6 Pistol grip vacuum pump with no-kink silicone tubing
- 5 Media Measuring Devices (MMDs)
- 38.1g Membrane Lauryl Sulphate Broth
- 5 Pasteur pipettes
- 10 Hand lens
- Forceps
- 200 sterilised and sealed membrane filters
- 200 absorbent pads
- 14 Absorbent pad dispenser
- 15 Steel sampling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

Potalab (C) Case includes:

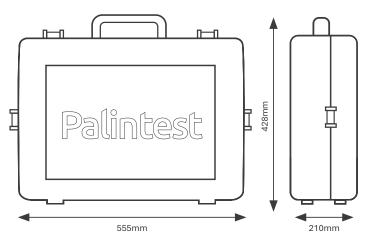
- 20 Lumiso Expert Photometer
- 6 photometer cuvettes
- Reagents for 200 tests
 (Free and Total Chlorine, Ammonia,
 Fluoride, Nitrite, Nitrate)
- 23 Turbidity Expert
- 24 SDVB calibration standards
- 25 Silicone oil
- 26 Cleaning cloth
- 27 Micro 800 Multiparameter
- pH calibration buffers
- 29 Conductivity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

Kemio HM Soft Case Kit:

- 33 Kemio HM Instrument
- Consumables for 200 arsenic tests



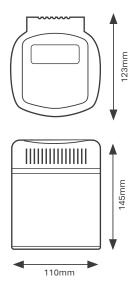
Technical Specification



Potalab+ Kit Specifications

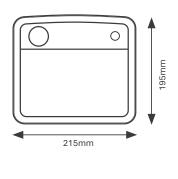
| Kit Microbiological Capacity | Dual incubators with consumables for 200 tests for Thermotolerant/Faecal Coliforms or Total Coliforms. |
|------------------------------------|--|
| Physico- Chemical Parameters | Ammonia, Arsenic, Free and Total Chlorine, Fluoride, Nitrate, Nitrite, Turbidity, pH, Conductivity, 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). |

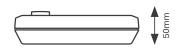
Potalab+ Incubator Specifications



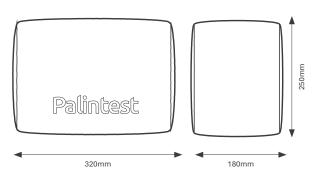
| Test Protocols | Temperature selections at 37°C and 44°C, with up to 6 user-defined profiles ranging from 20°C to 50°C. User-selectable time periods for all temperatures, including an automatic resuscitation period. |
|-----------------------|--|
| Temperature Stability | ±0.1°C |
| Temperature Control | 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





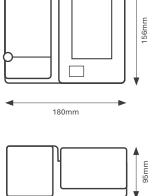
| Instrument Type | Multiparameter Photometer |
|-----------------------|--|
| Wavelengths | 430 nm, 465 nm, 530 nm, 575 nm, 620 nm |
| Peak Wavelengths | ±2 nm |
| Accuracy | ±1 %T |
| Display | Full colour TFT – 16:9 ratio screen, resolution 800x480 px |
| User Interface | PCAP touch panel |
| Weight (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

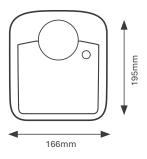
Kit Weight 2.07kg

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 (WxLxH) & Weight ** | 156 mm x 180 mm x 95 mm, 1012g |
| Battery | 2399mAh NiMH Rechargeable Battery Pack |
| Power Supply | USB Power |
| Rating | IP67 |

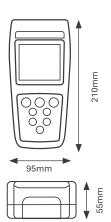
Turbidity Expert Specifications





| 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 |
| | |





| Parameter | Resolution | Accuracy |
|------------------------------|--|---|
| рН | 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 ±1µS/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 |

Wagtech Potalab without Arsenic

Supplied in two cases – Wagtech Potalab (M) Case and Wagtech Potalab (C) Case as above. This kit excludes the Kemio HM soft case kit



ORDERING INFORMATION PRODUCT CODE: PTW10011XA



Potalab (M) Case includes:

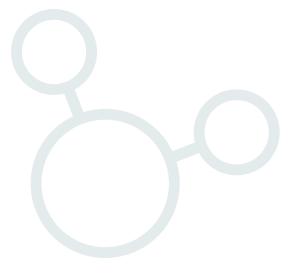
- Dual Potalab incubators each with petri dish rack and 20 petri dishes
- High-performance lead acid battery (min. 5 cycles per incubator)
- Mains charger with international adaptors
- 4 Vehicle charger and external battery clips

Membrane Filtration Unit

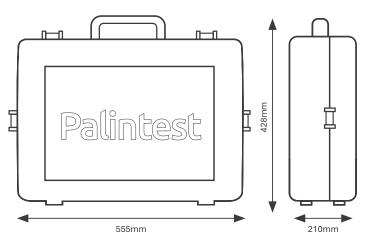
- 5 Bronze disc
- 6 Pistol grip vacuum pump with no-kink silicone tubing
- 5 Media Measuring Devices (MMDs)
- 8 38.1g Membrane Lauryl Sulphate Broth
- 5 Pasteur pipettes
- 10 Hand lens
- Forceps
- 200 sterilised and sealed membrane filters
- 200 absorbent pads
- 14 Absorbent pad dispenser
- 15 Steel 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
- 6 photometer cuvettes
- 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
- pH calibration buffers
- 29 Conductivity calibration standards
- 30 Dilution tubes
- 31 De-ion pack
- 32 User manual



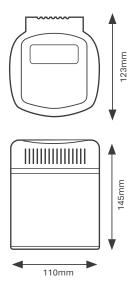
Technical Specification



Potalab+ Kit Specifications

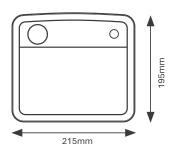
| Kit Microbiological Capacity | Dual incubators with consumables for 200 tests for Thermotolerant/Faecal Coliforms or Total Coliforms. |
|------------------------------------|--|
| Physico- Chemical Parameters | Ammonia, Arsenic, Free and Total Chlorine, Fluoride, Nitrate, Nitrite, Turbidity, pH, Conductivity, 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). |

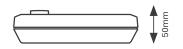
Potalab+ Incubator Specifications



| 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. |

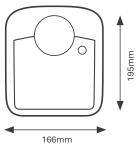
Lumiso Expert Specifications

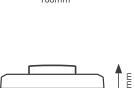




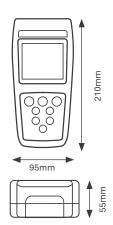
| Instrument Type | Multiparameter Photometer |
|-----------------------|--|
| Wavelengths | 430 nm, 465 nm, 530 nm, 575 nm, 620 nm |
| Peak Wavelengths | ±2 nm |
| Accuracy | ±1 %T |
| Display | Full colour TFT – 16:9 ratio screen, resolution 800x480 px |
| User Interface | PCAP touch panel |
| Weight (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 |
| | |

Turbidity Expert Specifications



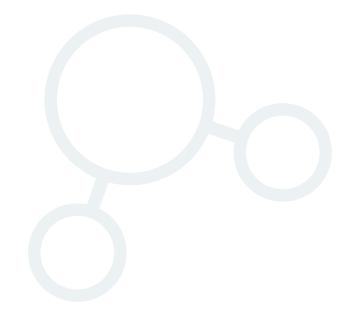


| Range | 0.01-1000 NTU |
|------------------------|---|
| Repeatability | ±1% (or ±0.01 NTU), whichever is greater |
| Approvals | ISO7027 compliant, featuring 860 nm wavelength LED |
| Measuring System | Nephelometry |
| Operating Range | Ambient temperature from 0°C to 40°C |
| Reading Modes | Normal (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 |
|------------------------------|--|---|
| рН | 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 ±1µS/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 |



Wagtech Potacheck

Supplied as Potalab (C) Case only, with Kemio HM soft case kit



Potalab (C) Case includes:

- 1 Lumiso Expert Photometer
- 2 5 photometer cuvettes
- Reagents for 200 tests (Free and Total Chlorine, Ammonia, Fluoride, Nitrite, Nitrate)
- 4 Turbidity Expert
- 5 SDVB calibration standards
- 6 Silicone oil
- 7 Cleaning cloth

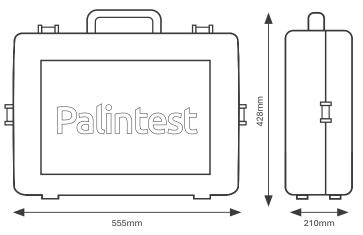
- 8 Micro 800 Multiparameter
- 9 pH calibration buffers
- 10 Conductivity calibration standards
- 11 Dilution tubes
- 12 De-ion pack
- 13 User manual

Kemio HM Soft Case Kit:

- Consumables for 200 arsenic tests
- 15 Kemio HM Instrument
- 16 Kemio Check Standards



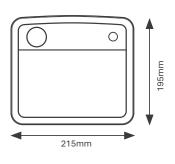
Technical Specification



Potacheck 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 | One heavy-duty field cases, each $55.5\mathrm{x}$ 42.8 x 21.1 cm, 11 kg (C) and Soft Case Kit for Kemio HM, 2.1kg . |

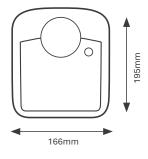
Lumiso Expert Specifications

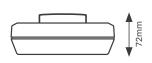




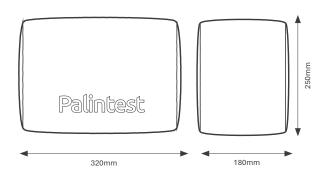
| Instrument Type | Multiparameter Photometer |
|-----------------------|--|
| Wavelengths | 430 nm, 465 nm, 530 nm, 575 nm, 620 nm |
| Peak Wavelengths | ±2 nm |
| Accuracy | ±1 %T |
| Display | Full colour TFT – 16:9 ratio screen, resolution 800x480 px |
| User Interface | PCAP touch panel |
| Weight (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 |

Turbidity Expert Specifications





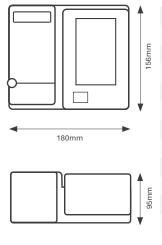
| 0.01-1000 NTU |
|---|
| ±1% (or ±0.01 NTU), whichever is greater |
| ISO7027 compliant, featuring 860 nm wavelength LED |
| Nephelometry |
| Ambient temperature from 0°C to 40°C |
| Normal (Push to Read), Signal Averaging, Continuous |
| <7 seconds in Normal reading mode |
| 800 x 480px full-colour IPS display |
| Touchscreen, usable with wet and gloved hands |
| Enclosure rating IK08 for impact resistance, IP67 waterproof rating |
| Palintest Connect enabled Wi-Fi, USB-C for data transfer |
| Up to 5,000 test results |
| 195 mm x 166 mm x 72 mm, 650g |
| Rechargeable Li-ion battery (up to 2500 tests on a full charge), USB-C powered/rechargeable |
| |



Kemio Soft Case Specifications

| Kit Weight | 2.07kg | |
|---------------|---------|--|
| KIL V VOIGITE | 2.07 Ng | |

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 (WxLxH) & Weight ** | 156 mm x 180 mm x 95 mm, 1012g |
| Battery | 2399mAh NiMH Rechargeable Battery Pack |
| Power Supply | USB Power |
| Rating | IP67 |



Micro 800 Specifications

| Parameter | Resolution | Accuracy |
|------------------------------|--|---|
| рН | 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 ±1µS/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 |

Wagtech Potatest Dual

Supplied as Potalab (M) Case only





ORDERING INFORMATION PRODUCT CODE: PTW10020



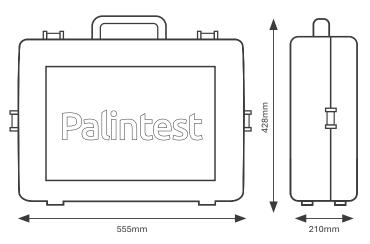
- Dual Potalab incubators each with petri dish rack and 20 petri dishes
- 2 High-performance lead acid battery (min. 5 cycles per incubator)
- Mains charger with international adaptors
- 4 Vehicle charger and external battery clips

Membrane Filtration Unit

- 5 Bronze disc
- Pistol grip vacuum pump with no-kink silicone tubing
- 7 5 Media Measuring Devices (MMDs)
- 8 38.1g Membrane Lauryl Sulphate Broth
- 5 Pasteur pipettes
- 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
- 250 mL polypropylene beaker
- 18 Quick start prompt cards
- Full microbiological instruction manual
- 20 De-Ion Pack
- 21 Dilution Tube

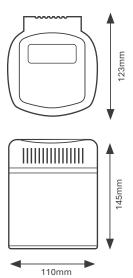
Technical Specification



Potatest Dual 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 | One heavy-duty field cases, each 55.5 x 42.8 x 21.1 cm, 12 kg (M). |

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. |





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

Includes visual testing apparatus for turbidity, ammonia, free and total chlorine, fluoride, nitrite, and nitrate. Also includes pocket sensors for pH and conductivity.



Versatile & Flexible

Suitable for use in emergency situations, rural water quality monitoring and WASH projects with immediate results on chemical parameters.



Field Ready Water Testing

The kit comes with a durable, portable carry case with foam inserts, ensuring longevity even in harsh field conditions.

TESTS FOR

| Category | Parameter | Range |
|--------------------|---------------------------------|--|
| | Ammonia | 0.03–1 mg/L N |
| | Free Chlorine | 0.01–5 mg/L Cl ₂ |
| Chemical | Total Chlorine | 0.01 – $5~\rm{mg/L~Cl}_2$ |
| Gnemicat | Nitrate | 0.6–20 mg/L N |
| | Nitrite | 0.002–0.5 mg/L N |
| | Fluoride | 0.03–1.5 mg/L F |
| | Turbidity | 5-500 JTU |
| | рН | 0.00-15.00 |
| Physical | Conductivity | 0 – 20,000 μS/cm 0 – 20 mS/cm (Auto-ranging) |
| | Temperature | 0.0-50°C |
| Microbiological | Thermotolerant/Faecal Coliforms | >1CFU/ 100mL |
| (Potalab (M) case) | Total Coliforms | >1CFU/ 100mL |



ORDERING INFORMATION PRODUCT CODE: PTW10030XA



Wagtech Potakit Case includes:

- Wagtech Incubator with 20 petri dishes
- Lead acid battery with mains charger and international adaptors
- 3 Vehicle charger and external battery leads

Membrane Filtration Unit

- 4 Bronze disc
- 5 Pistol grip vacuum pump with no-kink silicone tubing
- 6 5 Media Measuring Devices (MMDs)
- 7 38.1g Membrane Lauryl Sulphate Broth
- 8 5 Pasteur pipettes
- 9 Hand lens
- 10 Forceps
- 11 200 sterilised and sealed membrane filters
- 12 200 absorbent pads
- 13 Absorbent pad dispenser
- 14 Steel sampling cup
- 15 Sampling cable

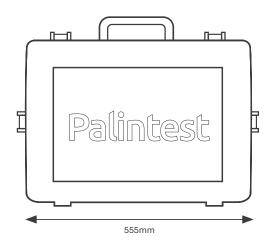
- 16 Contour Comparator and Discs
- 17 Reagents for 200 tests for Free and Total Chlorine, Ammonia, Fluoride, Nitrite, and Nitrate
- Double Length Turbidity Tube for visual turbidity testing
- 19 Pocket Meter for pH
- 20 Calibration buffers
- 21 Pocket Meter for Conductivity
- 22 Calibration standard

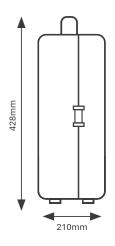
Additional Accessories

- 23 Cuvette brush
- 24 250 mL beaker
- 25 Dilution tube
- 26 User manual



Technical Specification



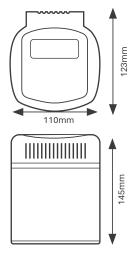




Potakit Kit Specifications

| Kit Microbiological Capacity | Single incubator with consumables for 200 tests for Thermotolerant/Faecal Coliforms or Total Coliforms. |
|---------------------------------|---|
| Physico-Chemical Parameters | Ammonia, Free and Total Chlorine, Nitrate, Nitrite, Turbidity, pH, Conductivity. Additional parameters available. |
| Kit Size & Weight | 55.5 x 42.8 x 21.1 cm, 13 kg |

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. |





WAGTECH POTATEST CLASSIC

The Wagtech Potatest Classic is a reliable and cost-effective portable water quality testing kit, designed for rapid on-site testing of critical drinking water quality parameters.

This kit is ideal for emergency response and simple water quality testing projects.







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

The kit includes instruments and reagents for a range of physical and chemical parameters. This includes tools such as the Contour Comparator for visual testing of key parameters.



Seamless Data Management

Suitable for use in emergency situations, rural water quality monitoring, and simple water quality testing projects.



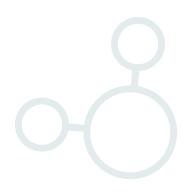
Field Ready Water Testing

The kit comes with a durable, portable carry case with foam inserts, ensuring longevity even in harsh field conditions.

TESTS FOR

| Category | Parameter | Range |
|------------------|---------------------------------|-----------------------------|
| Chemical | Free Chlorine | 0.01–5 mg/L Cl ₂ |
| Gliefilicat | Total Chlorine | 0.01–5 mg/L Cl ₂ |
| Physical | Turbidity | 5-500 JTU |
| | рН | 0.00-15.00 |
| Microbiological | Thermotolerant/Faecal Coliforms | >1CFU/ 100mL |
| Pilotopiotogicat | Total Coliforms | >1CFU/ 100mL |

Kit Contents





ORDERING INFORMATION PRODUCT CODE: PTW10005



Wagtech Potakit Case includes:

- 1 Wagtech Incubator with 20 petri dishes
- 2 Lead acid battery
- Mains charger with international adapters
- 4 Vehicle charger
- 5 External battery leads

Membrane Filtration Unit:

- 6 Bronze disc
- 7 Pistol grip vacuum pump
- 8 No-kink silicone tubing
- 9 5 Media Measuring Devices (MMDs)
- 10 38.1g Membrane Lauryl Sulphate Broth
- 5 Pasteur pipettes
- 12 Hand lens
- 13 Forceps
- 200 sterilised and sealed membrane filters
- 15 200 absorbent pads
- 16 Absorbent pad dispenser
- 17 Steel sampling cup
- 18 Sampling cable

19 WSK Water Safety Kit PT100WSK

Contour Comparator and Discs:

Reagents for 200 tests (Free and Total Chlorine)

Double Length Turbidity Tube

Pocket Meter for pH

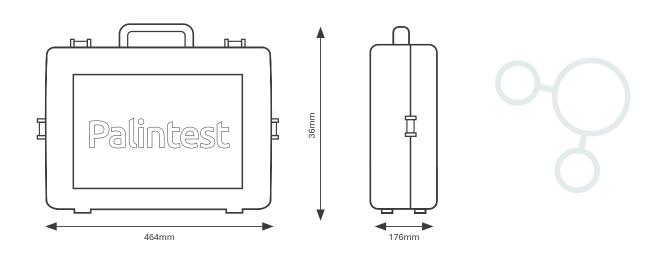
Calibration buffers

Additional Accessories:

- 20 250mL beaker
- 21 Dilution tube
- 22 Crush/stir rods
- 23 De-ion pack
- 24 User manual
- 25 Work Surface



Technical Specification



Potatest+ Kit Specifications

| Kit Microbiological Capacity | Single incubator with consumables for 200 tests for Thermotolerant/Faecal Coliforms or Total Coliforms. |
|---------------------------------|---|
| Physico-Chemical Parameters | Free and Total Chlorine, Turbidity, pH. Additional parameters available. |
| Kit Size & Weight | 46.4 x 36.6 x 17.6 cm, 9 kg |

110mm 123mm

Incubator Specifications

| Test Protocols | Temperature selections at 37°C and 44°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. |



WAGTECH CONSUMABLES



| Consumables | | | | Compat | ible with | | |
|---|----------|----------|---------|----------------------|---------------|---------|------------------|
| | | | | o Arsenic) | ual | | assic |
| Description | Code | Potatech | Potalab | Potalab (no Arsenic) | Potatest Dual | Potakit | Potatest Classic |
| Coliform Starter Pack | PTW10450 | • | • | • | • | • | • |
| Membrane Lauryl Sulphate Broth, 38.1g | PTW10454 | • | • | • | • | • | • |
| Membrane Filters, 200 pack | PTW10459 | • | • | • | • | • | • |
| Absorbent Pads & Membranes, 200 pack | PTW10460 | • | • | • | • | • | • |
| Absorbent Pads & Membranes, 1000 pack | PTW10462 | • | • | • | • | • | • |
| Absorbent Pads, 100 pack | PTW10463 | • | • | • | • | • | • |
| Nutrient Pad Set for E.coli and faecal coliforms | PTW10064 | • | • | • | • | • | • |
| Membrane Filters, 0.45μm, 47mm, gridded, 600 Pack | PTW10465 | • | • | • | • | • | • |

Potacheck includes chemical testing only and excludes microbiological testing consumables.





MICROBIOLOGICAL TESTING ACCESSORIES



| Microbiological Testing | | Compatible with | | | | | |
|---|----------|-----------------|---------|----------------------|---------------|---------|----------|
| Accessories | | Potatech | lab | Potalab (no Arsenic) | Potatest Dual | kit | Potatest |
| Description | Code | Pota | Potalab | Pota | Pota | Potakit | Pota |
| Wagtech Incubator | PT1005 | • | • | • | • | • | • |
| Wagtech Potalab Incubator | PT1010 | • | • | • | • | • | • |
| Membrane Filtration Unit | PTW10400 | • | • | • | • | • | • |
| Pistol Grip Hand Vacuum Pump | PTW10401 | • | • | • | • | • | • |
| Bronze Disk | PTW10402 | • | • | • | • | • | • |
| Silicone tubing for MFU | PTW10403 | • | • | • | • | • | • |
| Sampling Cup | PTW10404 | • | • | • | • | • | • |
| MFU/silicone tubing connector | PTW10405 | • | • | • | • | • | • |
| Forceps | PTW10412 | • | • | • | • | • | • |
| Hand Lens | PTW10416 | • | • | • | • | • | • |
| Aluminium Petri Dishes, 20 | PTW10420 | • | • | • | • | • | • |
| Aluminium Petri Dishes, 25 | PTW10423 | • | • | • | • | • | • |
| Replacement battery for Wagtech Incubator | PTW10425 | • | • | • | • | • | • |
| Pistol Grip Hand Vacuum Pump plus silicone tubing | PTW10427 | • | • | • | • | • | • |
| WagPac Disposable Water Sample Bags | PTW10428 | • | • | • | • | • | • |
| Media Measuring Devices (MMD) | PTW10429 | • | • | • | • | • | • |
| Absorbent Pad Dispenser | PTW10464 | • | • | • | • | • | • |
| Pasteur Pipettes, 1mL | PTW10700 | • | • | • | • | • | • |

Potacheck includes chemical testing only and excludes microbiological testing accessories.

Included Instrumentation

| Instrumentation included | Potalab+ | Potatech+ | Potacheck | Potakit | Potatest Dual | Potatest Classic | Water Safety Kit (WSK) |
|------------------------------|----------|-----------|-----------|------------|------------------|---------------------|---------------------------|
| Part Code | PTW10011 | PTW10481 | PTW10727 | PTW10030XA | PTW10020 | PTW10005 | PT100WSK |
| Membrane filtration set | • | • | | • | • | • | |
| Lumiso Expert | • | • | • | | | | |
| Turbidity Expert | • | • | • | | | | |
| Kemio HM | • | | • | | | | |
| Micro 800 | • | | • | | | | |
| Electrochemical Pocket meter | | • | | • | | • | • |
| Visual comparator kits | | | | • | | • | • |

MICROBIOLOGICAL KIT COMPARISON



TEST TYPE:

- Digital
- Microbiological
- Visual

| Potalab+ | Potatech+ |
|----------|-----------|
| Padet | |

Reagents

Consumables for 200 arsenic tests

Photometer reagents for 200 tests of each chemical parameter

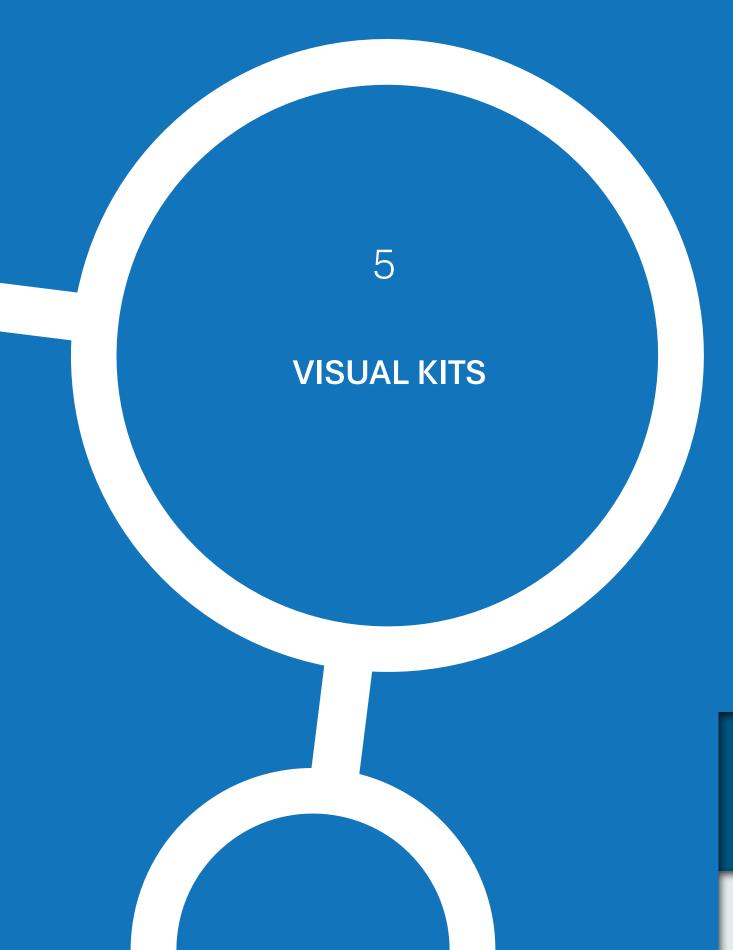
Photometer reagents for 200 tests for each chemical parameter

| Parameters | PTW10011 | PTW10481 |
|---------------------------------|----------|----------|
| Ammonia | • | • |
| Arsenic | • | |
| Free Chlorine | • | • |
| Total Chlorine | • | • |
| Combined Chlorine | • | • |
| Conductivity | • | • |
| Fluoride | • | |
| Nitrate | • | • |
| Nitrite | • | • |
| рН | • | • |
| TDS | • | |
| Temperature | • | • |
| Thermotolerant/Faecal Coliforms | • | • |
| Total Coliforms | • | • |
| Turbidity | • | • |









VISUAL KITS

Visual testing provides a straightforward and effective method for assessing water quality. This technique involves using reagents that react with specific chemicals in the water, causing a visible colour change.

By comparing the colour of the treated water sample to a standard colour chart, you can determine the concentration of various substances in the water and therefore determine the overall water quality. Visual test kits are ideally suited to applications where the volume of testing is high and where approximate screening of samples is required.





| VISUAL KITS | | 130 |
|--|-------------------------|-----|
| | CONTOUR COMPARATOR KITS | 132 |
| \$3 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - | TEST STRIPS | 136 |
| | POOLTESTER KITS | 138 |
| Constant of the Constant of th | POCKET KITS | 140 |
| | SEWAGE EFFLUENT KIT | 142 |
| | VISUAL ACCESSORIES | 144 |







CONTOUR COMPARATOR KITS

Simple to use, and with a wide range of kit options, the Contour Comparator offers an excellent solution to visual testing requirements.

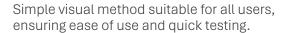








Effortless Simplicity





Expandable Testing

Additional discs and reagents can be purchased to expand testing capabilities, offering cost-effective customisation to meet specific testing needs.



Compact Portability

Compact design makes it easy to transport and use in various locations, ideal for on-site testing and fieldwork.

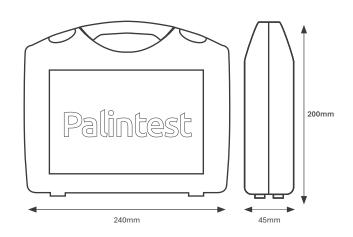


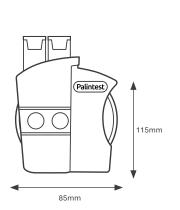
Fast Results

Get results in seconds, saving time for other maintenance activities.



Technical Specification





ORDERING INFORMATION

Single Parameter Kits

| Parameter | Test Range | Kit Product Code (30 tests) | Comparator Disc | Replacement Reagents (250 tests) |
|--------------------------|----------------------------|--------------------------------|-----------------|-------------------------------------|
| Ammonia | 0–1 mg/L N | CKH1152 | CKD1152 | AP152 |
| Bromine | 0–8 mg/L Br ₂ | - | CKD1005 | AP060 |
| Chlorine, DPD1 Free | 0–5 mg/L Cl ₂ | CKH1001 | CKD1001 | AP011 |
| Chlorine, Free and Total | 0–1 mg/L Cl ₂ | CKH1003 | CKD1003 | AP031/1 |
| Chlorine HR | 0–50 mg/L Cl2 | CKH162/50 | CKD162/50 | AP162 |
| Chlorine HR | 0–250 mg/L Cl ₂ | CKH162/250 | CKD162/250 | AP162 |
| Iron MR | 0–10 mg/L Fe | CKH1292 | CKD1292 | AP292 |
| Nitrite | 0–0.4 mg/L N | CKH1109 | CKD1109 | AP109 |
| Phosphate LR | 0–4 mg/L PO ₄ | CKH1177 | CKD1177 | AP177 (200 tests) |
| Zinc | 0–4 mg/L Zn | - | CKD1148 | AP148 |
| pH Phenol Red | pH 6.8–8.4 | CKH1131 | CKD1131 | AP130 |

Dual Parameter Kits

| Parameter | Test Range | Kit Product Code |
|-------------------------------------|---|------------------|
| Free and Total Chlorine, Phenol Red | 0-5 mg/L Cl ₂ and pH 6.8-8.4 | CKH2001 |
| Free and Total Chlorine, Phenol Red | 0-2 mg/L Cl ₂ and pH 6.8-8.4 | CKH2002 |



TEST STRIPS

Available in 3-way and 6-way formats to support all residential pool and hot tub users, Palintest test strips are the simplest method for testing your water.



Fast Results

Get results in seconds, saving time for pool maintenance



Cost Effective

Affordable testing method which gives an indication of pool water quality, making it budget-friendly for residential pool owners



Comprehensive Testing

Offers comprehensive testing for multiple parameters, ensuring complete pool water safety.



Effortless Simplicity

Simple visual test based on colour change method, just dip into water and read.

Ordering Information

| Item | Parameter | Test Range | Product Code | Qty |
|-------------------------|-------------------------|---|--------------|----------|
| | Free Chlorine | 0–10 mg/L | | |
| 3-in-1 Pool Test Strips | рН | 6.4–8.4 PTJ634 | | 50 tests |
| | Total Alkalinity | 0–240 mg/L | | |
| | Free Chlorine | 0–10 mg/L | | |
| | Total Chlorine/ Bromine | Chlorine 0–10 mg/L Bromine 0–20 mg/L | | 50 tests |
| 6-in-1 Pool Test Strips | рН | 6.4–8.4 | PTJ637 | |
| | Cyanuric Acid | 0–300 mg/L | | |
| | Total Hardness | 0–1000 mg/L | | |
| | Alkalinity | 0–240 mg/L | | |



POOLTESTER KITS

Ideal for the residential user, the Pooltester range provides simple and cost effective pool and hot tub testing.





Comprehensive Testing

Tests for key pool parameters including chlorine, pH, alkalinity, and bromine, ensuring comprehensive water quality monitoring.



Effortless Simplicity

Easy-to-use design allows users to test water quality with minimal effort, ensuring hasslefree maintenance.



Sustainable Design

Made from 100% post-consumer recycled plastic, supporting sustainable practices.



Compact Portability

Compact design makes it easy to store and transport to use poolside in various locations.

Ordering Information

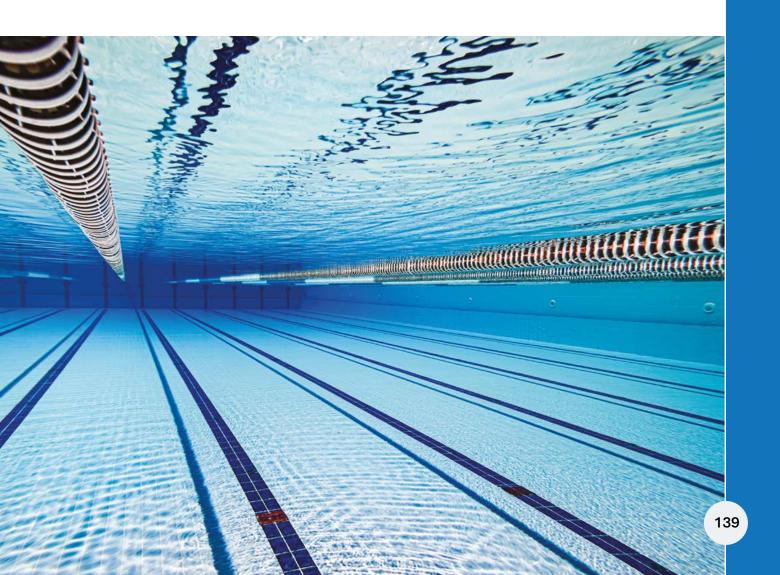
| Item | Parameter | Test Range | Qty included in kit | Part Code |
|---|---------------|--------------|---------------------|-----------|
| Oblasia / all Daalhastan | Free Chlorine | 0.1–6.0 mg/L | 20 tests | SPT610 |
| Chlorine/ pH Pooltester | рН | 6.8-8.2 | 20 tests | 581610 |
| | Chlorine | 0.5–5.0 mg/L | 20 tests | |
| Chlorine (0-5 mg/L)/ pH/ Alkalinity Pooltester | рН | 6.8-8.2 | 20 tests | SPT612 |
| | Alkalinity | 0–250 mg/L | 10 tests | |
| | Chlorine | 0.2–3.0 mg/L | 20 tests | |
| Chlorine (0-3 mg/L)/ pH/ Alkalinity Pooltester | рН | 6.8–8.2 | 20 tests | SPT614 |
| | Alkalinity | 0–250 mg/L | 10 tests | |
| Bromine/ pH/ Alkalinity Pooltester | Bromine | 0.5–8.0 mg/L | 20 tests | |
| | рН | 6.8–8.2 | 20 tests | SPT616 |
| | Alkalinity | 0-250 mg/L | 10 tests | |

Pooltester Reagents

| Parameter | Product Code | | Compatible with | | | | |
|-----------------------------|--------------|------------|-----------------|--------|--------|--------|--------|
| | 50 tests | 100 tests | 250 tests | SPT610 | SPT612 | SPT614 | SPT616 |
| Alkalinity | - | - | AP192 | | • | • | • |
| рН | - | AL131/100B | AP130 | • | • | • | • |
| Free Chlorine/ Bromine DPD1 | AL010B | AL010/100B | AT050 | • | • | • | • |
| Total Chlorine DPD3 | - | - | AT030 | • | • | • | |
| Total Chlorine DPD4 | - | - | AT054 | • | • | • | |

Pooltester Refill Packs

| Refill Pack | Parameter | Quantity | uantity Part Code | | Compat | ible with | |
|-----------------------|---------------|----------|-------------------|--------|--------|-----------|--------|
| | | | | SPT610 | SPT612 | SPT614 | SPT616 |
| Face ablasias and all | Free Chlorine | 30 tests | AL 003B | | • | | |
| Free chlorine and pH | pH AL003B | | | | J | | |





POCKET KITS

Providing an inexpensive approach to water testing for applications such as domestic water treatment control. Pocket Kits are all based on tablet reagents and visual colour comparison methods.



Compact Portability



Effortless Simplicity

Conveniently packaged in hard compact cases, perfect for on-the-go testing

Simple visual tests based on colour change methods, ensuring straightforward readings



Cost Effective



Fast Results

Offers an affordable solution for water testing, ideal for home use to give an indication of water quality

Get results in seconds, saving time for other maintenance activities.

Ordering Information

| Parameter | Test Range | Part Code (50 tests) | Replacement Reagents (250 tests) |
|-------------------------|------------------------------|----------------------|---|
| Free and total chlorine | 0.2–2.0 mg/L Cl ₂ | PK011 | Free Chlorine - AT050 Total Chlorine – AT030 |

Kit Contents





SEWAGE EFFLUENT KIT



The Palintest Sewage Effluent Kit is a comprehensive tool used in wastewater treatment facilities to monitor key parameters such as permanganate value, pH, turbidity, temperature, and probable BOD, COD, and TOC values, ensuring effective control and compliance.



Compact Portability

Compact and lightweight, allowing for easy transport and on-site testing.



Comprehensive Testing

Includes tests for permanganate value, pH, turbidity, temperature, and probable BOD, COD, and TOC values, ensuring thorough monitoring of sewage effluent quality.



Effortless Simplicity

Designed for straightforward operation without the need for complicated equipment, making it accessible for users with minimal training.



Field Ready

Kit contains all of the reagents and accessories required for testing, so you can get started straight away.

Kit Contents



ORDERING INFORMATION PRODUCT CODE: SP304

| Parameter | Description | Test Range | Replacement Consumable Part Code |
|------------------------------|--|---|---|
| Permanganate Value | The Palintest Permanganate Value test is a simplified version of the standard AO test for indicating the general quality of final effluents. The test enables the Permanganate Value (PV) to be determined and the effluent classified as to its acceptability for discharge. | 0–30+ PV | Permanganate Value: AD-1136 (300 bottle pack) Acidifying SE tablets: AD-0705 (100 bottle pack) |
| рН | Chemical and biological reactions at sewage works are profoundly influenced by pH. A pH test will also check, for example, on the effect of acid or alkaline trade wastes in the effluent flow. The pH test is carried out using a Universal pH test tablet and Contour Comparator equipped with Universal pH disc. | 4–11 | - |
| Turbidity and TSS | The Turbidity Test is designed to give a measure of the suspended solids content of the final effluent. It is also useful in following the day-to-day variation in the quality of sewage and effluent. The Palintest Turbidity Test uses a specially calibrated plastic tube. | 30–500 JTU | - |
| Temperature | A check should be maintained on the temperature of effluent discharges and these should always be close to ambient temperatures. This is particularly important on industrial effluents where heated processes are involved. The kit includes a -10° to +50° thermometer complete in a brass protecting case. | -10°C-+50°C | - |
| Probable BOD, COD and TOC | It is possible to derive an indication of the Biochemical Oxygen Demand (BOD), Chemical Oxygen Demand (COD) and Total Organic Carbon (TOC) from the result of the Permanganate Value test. This is based on the relationship between these measures of organic pollution obtained experimentally for such effluents. | All based on PV calculation BOD – Up to 150 mg/L COD – Up to 300 mg/L TOC – Up to 90 mg/L | - |



VISUAL ACCESSORIES

| | | Compatible with | | | | |
|--|-----------|-----------------------|------------|---------------------|--|--|
| Accessories | Part Code | Contour Comparator | Pocket Kit | Sewage Effluent Kit | | |
| Comparator cuvettes, 10 mL square comparator cuvettes, pack of 5 | PT521/5 | • | • | • | | |
| Dilution tube, up to 10x, 100 mL | PT512 | • | • | • | | |
| Crush/ Stirring Rods, pack of 10 | PT502 | • | • | • | | |
| Thermometer -10C to +50C | PT683 | | | • | | |
| Jackson Turbidity Tube, 13", 30-500 JTU | PT514 | | | • | | |
| Jackson Turbidity Tube, 26", two-part, 5-500 JTU | PT513 | | | • | | |







PALINTEST CONNECT

What is Connect?

Connect by Palintest is a cloud-based digital ecosystem, available by subscription, designed to support end users carrying out water quality testing, ensuring results are clear, connected, and compliant.









Reliable Data Every time

Log results digitally with GPS location tagging to ensure accuracy and prevent errors. Protect data from tampering, giving accurate testing visibility and reducing manual entry mistakes.





Data is automatically recorded and uploaded, allowing remote access across all locations. Monitor performance, take quick action, and generate clear, auditable reports.



Instant Access and Expert Support

Easily register instruments and get quick access to calibration certificates, service history, and a 12-month warranty. Benefit from expert technical support, automatic firmware updates, asset management and flexible self-service account options like upgrading or cancelling.

COSTS AND WHAT'S INCLUDED

Basic

- Single User
- Multi Instrument
- Calibration Certificates
- · Service History Included*
- Unlimited Data Upload
- 7-day Data Visibility
- 1. CSV Report Per Month
- 1 .pdf Report Per Month
- · Online FAQ Technical Support
- No Collaboration
- No Alert Management
- No GPS Access
- No API

*When serviced at a Palintest authorised service centre

Premium

- Single User
- Multi Instrument
- 5 Data Groups
- Calibration Certificates Premium Calibration Certificates
- Service History Included*
- Unlimited Data Upload 9-year Data Retention
- 100 .CSV Reports Per Month
- 100 Reports*
- Dedicated Technical Support
- Limit and Alert Management
- · GPS & Photo Geotagging
- 5 Collaborations**

*When serviced at a Palintest authorised service centre **Additional reports sold in blocks of 50 for £10 per block ***Only premium accounts no share with corporate

Corporate

- Single User
- Multi Instruments
- 100 Data Groups
- Calibration Certificates
- Premium Calibration Certificates
- Service History Included*
- Unlimited Data Upload 9-year Data Retention
- · Unlimited Reports
- Unlimited .CVS Reports
- Dedicated Technical Support
- Limit and Alert Management
- GPS & Photo Geotagging
- **Unlimited Collaborations**
- API Code on Request *When serviced at a Palintest authorised service centre

Compatible Products

- Lumiso Pooltest 3, 6, 9
- **Lumiso Pooltest Expert**
- Lumiso Chlorine, Chlorine Dioxide, Ozone, Ammonia
- Lumiso Expert
- **Turbidity Expert**
- Kemio Disinfection, Heavy Metals, Multi

REGISTER FOR CONNECT



www.palintestconnect.com



7
AFTER SALES

SERVICING

What is Palintest Servicing?

Ensure accurate results and reduce costly downtime with our essential instrument servicing.

Designed to keep your Palintest equipment calibrated, compliant, and ready to perform. With flexible on-site and return-to-manufacturer options, we work around your operations to keep you testing with confidence.





WHAT IS INCLUDED WITH A PALINTEST SERVICE?

Our Standard service is an all-inclusive package, which means it includes, Service, Calibration and standard repairs. This means there are no hidden costs. All Palintest instruments should be serviced annually by Palintest or a Palintest Authorised Service Partner.

| Component | Description |
|--------------------------------------|---|
| Visual Evaluation | Our technicians carefully inspect your instrument and its components to identify any issues. |
| Thorough Cleaning | We perform both internal and external cleaning to ensure optimal performance. |
| Software upgrade | Any required software or firmware updates are included to keep your instrument up-to-date. |
| Calibration Check and Re-calibration | We meticulously check and adjust calibration points, ensuring accuracy and recalibration back to factorynew standard. |
| Full Validation Testing | Following completion of each service, calibration and repair, each instrument undergoes rigorous testing to detect any errors or inconsistencies. |
| Necessary Repairs | All required repairs are completed as part of the service, if an instrument is beyond repair we offer a variety of options to get the customer back testing. NB. In Warranty products would be replaced Free of Charge. |



Compatible Products

- Lumiso Pooltest 3, 6, 9
- Lumiso Pooltest Expert
- Lumiso Chlorine, Chlorine Dioxide, Ozone, Ammonia
- Lumiso Expert
- Turbidity Expert
- Kemio Disinfection, Heavy Metals, Multi
- Turbidity Meter Plus (servicing ends December 2026)

How do I arrange a service?

Servicing is carried out by approved service partners around the world. To view your local partner and to book a service scan the QR code.



LEGACY TRADE-IN

Trade in options

We always recommend keeping your instrument in service and regularly verifying its performance using check standards.

If you own a legacy instrument that is beyond its support period, we suggest exploring upgrade options or requesting a demo. Please reach out to your respective sales contact to discuss options.

Use promo code TRADE20 to receive 20% off when trading in your instrument.



Legacy Instruments

| Legacy Electrochemical Instruments | Replacement Product Code |
|------------------------------------|--------------------------|
| ChloroSense | KEMS15DIS |
| PAASense | KEMS15DIS |
| ChlordioXense | KEMS15DIS |
| ChlordioX Plus | KEMS15DIS |
| Scanning Analyser SA1100 | KEMS15HM |

| Legacy Benchtop Photometers | Replacement Product Code |
|-----------------------------|--------------------------|
| Photometer 7100 | LUM7210 |
| Photometer 7500 | LUM7210 |
| Pooltest 9 | LMP009 |
| Pooltest 10 | LMPXUK/ LMPXUS/ LMPXAUS |
| Pooltest 25 | LMPXUK/ LMPXUS/ LMPXAUS |

| Legacy Turbidimeters | Replacement Product Code |
|----------------------|--------------------------|
| Turbidity Meter | LTH090 |
| Turbidity Meter Plus | LTH090 |

| Legacy Handheld photometers | Replacement Product Code |
|--|--------------------------|
| Compact Chlorometer: PTH045D, PTS045D | LUM051 |
| Compact Chlorometer Duo PTH027, PTS027 | LUM051 |
| Compact ClO2+: PTH046, PTS046 | LUM052 |
| Compact Ozone: PTH043, PTS043 | LUM053 |
| Compact Ammonia: PTH041, PTS041 | LUM050 |
| Compact Ammonia Duo: PTH042, PTS042 | LUM050 |
| Turbidity Meter/Chlorometer Kit: PTH7091 | LUM051 |
| Turbidity Meter/Chlorometer Duo Kit: PTH7092 | LUM051 |
| Turbidity Meter/ClO2+ Kit: PTH7093 | LUM7051WLC/LUM052 |
| Turbidity Meter/Ozone Kit: PTH7094 | LUM7051WLC/LUM053 |
| Turbidity Meter/Ammonia + Kit PTH7095 | LUM7051WLC/LUM050 |
| Turbidity Meter/Ammonia Duo Kit: PTH7096 | LUM7051WLC/LUM050 |

APPROVALS AND CERTIFICATIONS

Trusted standards for accuracy, safety and reliability



Regulatory Approvals

Kemio – EPA Approved Methods

- Chlorine Dioxide (40 CFR 141.131(c)(1))
- Chlorite (40 CFR 141.131(b)(1))
- Free Chlorine (40 CFR 141.131(c)(1))
- Total Chlorine (40 CFR 141.74(a)(2))
- Lead (Pb) (40 CFR 141.23(k)(1))

Kemio CLO - UKAS Approved Method

- Trade Effluent to Controlled Water
- Measurement of Free and Total Chlorine (Method 3:9114, electrochemical)



Instrument Certifications

- **CE Marked** meeting European safety requirements
- IP67 Rated waterproof and dust-tight
- IK08 Impact Resistance durable (excludes Lumiso Handheld)
- IEC61010-1 / EN61010-1 electrical safety standards
- EN61326-1:2013 electromagnetic compatibility



NSF Certification

Lumiso Pooltest 3 & Pooltest 6 - Level 1 Accuracy

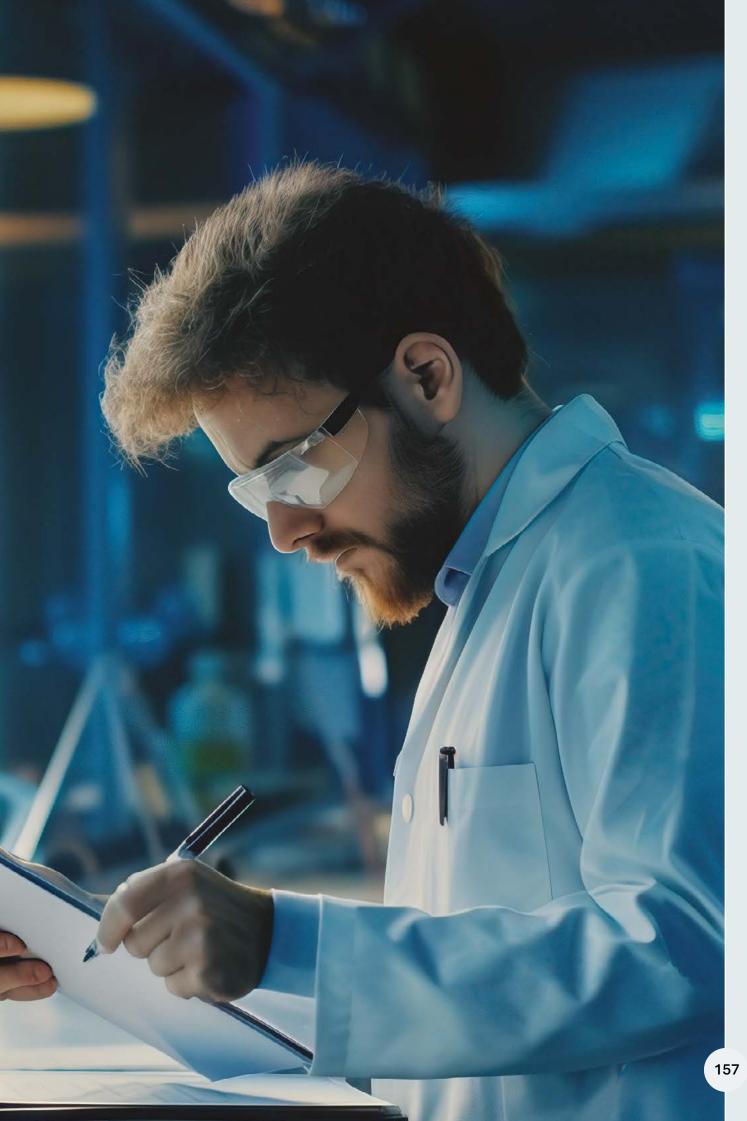
- Combined Chlorine (Pools & Spas)
- pH (Phenol Red) (Pools & Spas)
- Cyanuric Acid (Pools)

View our NSF listing: https://info.nsf.org/Certified/Pools/Listings.asp?Company=C0592612&Standard=050



Business Certifications

• ISO 9001 - Quality Management Standard



PALINTEST WARRANTY POLICY

Effective from 30th September 2025

Warranty Registration

- All products must be registered via Palintest Connect.
- Calibration certificates will be available digitally through Palintest Connect upon completion of warranty registration.
- Warranty claims can only be processed for registered products.
- An additional 12-month warranty extension (up to a maximum of 24 months total) is available when the
 instrument is serviced by an approved Palintest partner.

Warranty Coverage

This warranty covers the repair or replacement of products or components that are found to be defective under normal use. To qualify, the following conditions must be met:

- The instrument is registered through Palintest Connect (failure to register your product may result in the inability to process warranty claims).
- It has been supplied, maintained, and used in accordance with Palintest user instructions.
- It has not been repaired or serviced by unauthorised personnel.

Exclusions

- Calibration of the instrument
- Accidental damage, for example dropping the instrument or exposure to extreme temperatures.
- Mechanical damage resulting from misuse or unauthorised repairs.
- Damage due to incorrect fitting of the battery compartment (applicable for Lumiso products with replacement AA cells).
- Damage caused using non-Palintest reagents.

Please note: pH, conductivity, and TDS probes are covered for six months from the date of purchase only. Micro 800 is covered for a period of 12 months from the date of purchase only.

This warranty policy does not affect your statutory rights.

After Sales



Standard terms and conditions for the supply of goods and services

The Customer's attention is particularly drawn to the price increase clause at Condition 7.4 and the exclusions and limitations of liability at Condition 10.

I DEFINITIONS AND INTERPRETATION

- 1.1 This is version 1 of these Conditions dated 22 April 2022. In these Conditions:
- defined words and expressions have the meanings set out at Condition 25 unless the context otherwise requires;
- 1.3 references to the defined term Conditions are to the terms and conditions set out in this documen
- 1.4 all headings are for ease of reference only and will not affect the construction or interpretation of these Conditions;
 - unless the context otherwise requires:
- 1.4.1 references to the singular include the plural and vice versa and references to any gender include every gender;
- 1.4.2 references to a "person" include any individual, body corporate, association, partnership, firm, trust, organisation, joint venture, government, local or municipal authority, governmental or supra-governmental agency or department, state or agency of state or any other entity (in each case whether or not having separate legal personality);
- 1.5 references to any statute or statutory provision include any subordinate legislation made under it and will be construed as references to such statute, statutory provision and/or subordinate legislation as modified, amended, extended, consolidated, re-enacted and/or replaced and in force from time to time;
- 1.6 any words following the words "include", "includes", "including", "in particular" or any similar words or expressions will be construed without limitation and accordingly will not limit the meaning of the words preceding them;
- 1.7 the meaning of general words introduced by the word "other" or a similar word or expression will not be restricted by reason of the fact that they are preceded by words indicating a particular class of acts, matters or things;
- 1.8 references to "in writing" or "written" include e-mail:
- 1.9 any reference to an English or Welsh legal term, concept or thing will, in respect of any jurisdiction other than that of England and Wales, be deemed to include a reference to what most nearly approximates to the English or Welsh legal term in that jurisdiction:
- 1.10 any reference to:
- 1.10.1 time of day is to London GMT or BST (as relevant);
- 1.10.2 a day is to a period of 24 hours running from midnight to midnight;
- 1.10.3 an obligation on a party to procure or ensure the performance or standing of another person will be construed as a primary obligation of that party; and
- 1.10.4 any obligation on a party not to do or omit to do anything includes an obligation not to allow (whether expressly or by a failure to take reasonable steps to prevent) that thing to be done or omitted to be done by any other person.

2 CONTRACT FORMATION

- 2.1 Any quotation given by the Supplier will be valid for 30 days from and including its date, and will constitute an invitation to treat and not an offer.
- 2.2 The Order constitutes an offer by the Customer to purchase Goods and/or Services from the Supplier on these Conditions. A contract for the supply of Goods and/or Services by the Supplier to the Customer on these Conditions will be formed

- when the Supplier accepts the Order by issuing an Order Acknowledgement to the Customer. The Supplier is under no obligation to accept the Order. The Customer may not cancel its Order except as set out in Condition 7.4.
- .3 These Conditions are the only terms and conditions on which the Supplier will supply goods and/or services to the Customer and will apply to the exclusion of all other terms and conditions including any terms and conditions which the Customer purports to apply under any purchase order, confirmation of order or similar document (whether or not such document is referred to in the Contract) and any terms and conditions which may otherwise be implied by trade, custom, practice or course of dealing.
- 2.4 Delivery or commencement of the performance of the Services will be deemed conclusive evidence of the Customer's acceptance of these Conditions.
- 2.5 The Supplier will be entitled, at its discretion, to deliver Goods by separate instalments. The Supplier will be entitled to invoice the Price for each instalment separately in accordance with Condition 7.5. Each instalment will be deemed to be a separate contract and no cancellation or termination of any one contract relating to an instalment will give the Customer the right to cancel or terminate any other contract. Letters of Credit should allow for delivery in instalments and terms should ensure that despatch and negotiation dates allow sufficient time for documents to be submitted before expiry.

3 THE GOODS

- 3.1 The Supplier will obtain the Customer's prior approval in order to:
- 3.1.1 vary the design, finish or Specification of Goods and/or their packaging; and/or
- 8.1.2 substitute any materials or parts which are used in Goods and which are unavailable for any reason with alternative materials or parts, unless the variation or substitution is necessary to comply with Applicable Law, in which case the Supplier will use reasonable endeavours to give the Customer prior written notice of any such variation or substitution.
- 3.2 With the exception of the Specification, all samples, drawings, descriptive and illustrative matter and advertising issued or published by the Supplier (or the manufacturer of the Goods) are for the sole purpose of giving an approximate idea of the relevant Goods.
- 3.3 The Contract is not a sale by sample.
- 3.4 The Supplier is a registered producer under the UK WEEF Regulations WEE/HE0048TZ. Upon the sale of all Goods which are electrical and electronic equipment ("EEE") the Customer agrees to accept the financial obligations for removal, collection, recovery and recycling of the EEE once it becomes waste and for any replaced EEE provided to the Customer.

4 DELIVERY

- Unless otherwise specified in the Order
 Acknowledgement, the Goods will be EXW
 Incoterms 2020 at the location specified in the
 Order Acknowledgement. Delivery of the Goods
 will be deemed to occur when the Supplier
 completes its delivery obligations under that
 Incoterm or as otherwise set out in the Order
 Acknowledgement. To the extent that these
 Conditions or the Order Acknowledgement set out
 that the Goods will be Delivered pursuant to an
 Incoterm 2020, then where there is any conflict or
 inconsistency between Incoterms 2020 and these
 Conditions, Incoterms 2020 will take precedence.
- 4.2 Where the Order Acknowledgement specifies

- that the Supplier shall arrange carriage, carriage shall be via the Supplier's nominated carriers or forwarding agents, otherwise a surcharge will be imposed.
- 4.3 The Supplier will use reasonable endeavours to Deliver the Goods on the estimated date set out in the Order Acknowledgement, but time for Delivery of the Goods will not be of the essence of the Contract. Any Delivery dates given by the Supplier are estimates only.
- 4.4 If the Goods have not been Delivered under Condition 4.1 within 20 Business Days from and including the latter of:
- 4.4.1 the estimated Delivery date set out in the Order Acknowledgement: or
- 4.4.2 any updated estimated Delivery date notified to the Customer in writing, the Customer will notify the Supplier in writing and, if the Supplier fails to Deliver the Goods within a further 10 Business Days of the Customer's written notice, the Supplier will refund to the Customer any monies which the Customer has already paid to the Supplier under the Contract for the Goods. Subject to Condition 10.4, the Supplier's sole Liability for its failure to Deliver the Goods will be limited to the price (exclusive of VAT) paid by the Customer in obtaining replacement goods of equivalent description and quality in the cheapest market available, less the Price of the Goods. The Customer will not otherwise be entitled to cancel the Contract or to reject any Goods by reason of a delay in Delivery or failure to Deliver.
- 4.5 If Delivery occurs but the Customer fails to accept delivery of, or to collect, the Goods, the Supplier will be entitled to:
- 4.5.1 store or arrange for storage of the Goods until the Customer accepts delivery of them or they are disposed of under Condition 4.5.2 (as applicable) and to take such action as it considers necessary to attempt to re-deliver the Goods to the address specified in the Order Acknowledgement; or
- 4.5.2 treat the Contract as repudiated by the Customer and dispose of the Goods in any way it sees fit, including by sale to another person. If the Supplier sells any of the Goods under this Condition 4.5.2 at a price which is less than the relevant Price plus any relevant packaging, insurance, carriage and delivery costs, the Supplier will be entitled to charge the Customer for the shortfall; and
- 4.5.3 charge the Customer for all costs and expenses which the Supplier incurs under Conditions 4.5.1 and 4.5.2.
- 4.6 The Customer will ensure that any Goods and/or Services that the Customer purchases or receives from the Supplier under the Contract will not be received, imported, exported, re-exported, transferred, sold or used except in compliance with (i) all Applicable Laws, regulations, orders and requirements relating to import, export control and sanctions, as they may be amended from time to time, including without limitation those of the United States of America, the European Union, the United Kingdom, and the jurisdictions in which the Customer and the Supplier are established, conduct business or from which the Goods and/or Services may be supplied; and (ii) the requirements of any licences, authorisations or licence exceptions relating to the receipt, import, export, re-export, transfer use or sale of the Goods and/or Services.

5 INSPECTION AND ACCEPTANCE

1 The Customer will inspect the Goods on Delivery and will within 10 Business Days from and including the date of Delivery give written notice to the Supplier of any breach of the warranty in Condition 8.1 in relation to those Goods which is or should be identifiable upon reasonable inspection.

5.2 If the Customer does not give notice to the Supplier under Condition 5.1 in respect of the Goods, the Customer will be deemed to have accepted the Goods on expiry of the 10 Business Day period from and including the date of Delivery.

6 PASSING OF RISK AND RETENTION OF TITLE

- 6.1 Risk of damage to or loss of the Goods will pass to the Customer on Delivery.
- 6.2 Subject to Conditions 6.3 and 6.4, legal and beneficial ownership of the Goods will not pass to the Customer until the Supplier has received in full in cleared funds:
- 6.2.1 all sums due to it in respect of the Goods; and
- 6.2.2 all other sums which are or which become due to the Supplier from the Customer on any account whatsoever.
- 6.3 The Customer may resell the Goods if that is in the ordinary course of its business (but not otherwise) and, if it does so, legal and beneficial ownership of Goods will pass to the Customer immediately prior to the Customer entering into a binding contract for the sale of those Goods.
- 6.4 The Supplier may, by giving written notice to the Customer, pass legal and beneficial ownership of the Goods (or any of them) to the Customer at any time before such ownership would otherwise have passed to the Customer.
- 6.5 Until ownership of the Goods has passed to the Customer, the Customer will:
- 6.5.1 hold the Goods on a fiduciary basis as the Supplier's bailee:
- 6.5.2 store the Goods (at no cost to the Supplier) separately from all other goods of the Customer or any third party in such a way that they remain readily identifiable as the Supplier's property;
- 6.5.3 not destroy, deface or obscure any identifying mark or packaging on or relating to the Goods;
- 6.5.4 maintain the Goods in satisfactory condition; and
- 6.5.5 keep the Goods insured for their full price against damage or loss on an "all risks" basis.
- 6.6 The Customer's right to possession, use and resale of the Goods will terminate immediately if, before ownership of the Goods passes to the Customer in accordance with Conditions 6.2, 6.3 or 6.4:
- 6.6.1 the Customer suffers an Insolvency Event;
- 6.6.2 the Supplier gives the Customer written notice that it has any reasonable concerns regarding the financial standing of the Customer;
- 6.6.3 the Customer fails to pay any sum due to the Supplier under the Contract on or before the due date;
- 6.6.4 the Customer encumbers or in any way charges any of the Goods; or
- 6.6.5 the Contract expires or terminates for any reason.
- 6.7 Once the Goods are Delivered to the Customer, the Supplier will be entitled to recover payment for the Goods (including by way of an action for the price) notwithstanding that ownership of any of the Goods has not passed from the Supplier.
- 6.8 The Customer grants, and will procure that the owner of any third party premises grants, the Supplier, its agents, employees and subcontractors an irrevocable licence at any time to enter any premises where the Goods are or may be stored in order to inspect them, or, where the Customer's right to possession, use and resale has terminated, to recover them.
- 6.9 Where the Supplier is unable to determine whether any goods are the Goods in respect of which the Customer's right to possession, use and resale has terminated, the Supplier will be deemed to have sold all goods of the kind sold by the Supplier to the Customer in the order in which they were invoiced to the Customer.
- 6.10 If the Customer's right to possession, use and resale of the Goods terminates in accordance with Condition 6.6, the Supplier will be entitled to issue the Customer with a credit note for all or any part of the price of the Goods together with value added tax thereon.
- 6.11 The Supplier's rights contained in this Condition 6 will survive expiry or termination of the Contract however arising.

7 PRICE AND PAYMENT

- 7.1 The Customer will pay the Prices and Charges to the Supplier in accordance with this Condition 7.
- 7.2 Depending on the method of Delivery and where set out in the Order Acknowledgement, the Prices and Charges may be exclusive of packaging, insurance, carriage and delivery costs and Expenses and, in such case, these may be payable by the Customer in addition to the Prices and Charges.
- 7.3 Any sum payable under the Contract is exclusive of VAT (and any other similar or equivalent taxes, duties, fees and levies imposed from time to time by any government or other authority) which will be payable in addition to that sum in the manner and at the rate prescribed by law from time to time.
- 7.4 The Supplier will be entitled to vary the Prices and/or Charges at any time prior to Delivery or performance by giving written notice to the Customer to reflect any variation in the cost of supplying the Goods and/or Services which

arises as a consequence of: (i) any change in Applicable Law; (ii) any variation in the Customer's requirements for the Goods and/or Services; (iii) any information provided by the Customer being inaccurate or incomplete;

(iv) any failure or delay by the Customer in providing information; or (v) any factor beyond the Supplier's control (including foreign exchange fluctuations, increases in taxes and duties, and increases in labour, materials, utilities, haulage or other manufacturing or delivery costs).

- 7.5 Unless otherwise notified to the Customer by the Supplier (for example where the Supplier has notified the Customer that the Goods/Services require upfront payment or where the Supplier exercises its discretion to ask for upfront payment where the Supplier has concerns about the Customer's creditworthiness), the Supplier will invoice the Customer for the Prices for the Goods and any packaging, insurance, carriage and delivery costs payable by the Customer in addition to the Prices and the Charges and any Expenses payable by the Customer in addition to the Charges following Delivery.
- 7.6 Each invoice will be payable by the Customer within 30 days after the end of the month in which the Supplier's invoice is submitted. All payments will be made in pounds sterling for such other currency as may be stated on the Supplier's invoice) in available cleared funds by electronic transfer to such bank account as the Supplier may nominate from time to time.
- 7.7 Notwithstanding any purported contrary appropriation by the Customer, the Supplier will be entitled, by giving written notice to the Customer, to appropriate any payment by the Customer to any invoice issued by the Supplier.
- 7.8 If any sum payable under the Contract is not paid on or before the due date for payment, without prejudice to any other rights or remedies available to the Supplier pursuant to these Conditions, the Supplier will be entitled to charge the Customer interest on that sum at 4% per annum above the base lending rate from time to time of the Bank of England from the due date until the date of payment (whether before or after judgment), such interest to accrue on a daily basis.
- 7.9 If the Customer fails to make any payment due to the Supplier under the Contract or any other contract between the Customer and the Supplier within 10 Business Days after the due date, without prejudice to any other rights or remedies available to the Supplier pursuant to these Conditions, the Supplier will be entitled to withhold further deliveries of goods and to suspend or terminate provision of the services until that payment has been made (whether the Goods/Services under the Contract or whether the goods/services under any other contract).
- 7.10 If the Customer suffers an Insolvency Event all invoices issued by the Supplier will immediately become due and payable to the extent permitted by Applicable Law.
- 7.11 Save as otherwise expressly provided in these Conditions or required by law, all payments to be made by the Customer to the Supplier under the Contract will be made in full and without any setoff or any deduction or withholding including on account of any counter-claim.
- 7.12 Following expiry or termination of the Contract:
- 7.12.1 the Supplier will be entitled to invoice all Prices and Charges and any packaging, insurance, carriage and delivery costs and Expenses incurred which have not yet been invoiced; and
- 7.12.2 all invoices (including any invoices issued under Condition 7.12.1) will become immediately due and payable by the Customer.

8 WARRANTY

- 8.1 The Supplier warrants to the Customer that for a period of 12 Months from delivery ("Warranty Period") the Goods will, subject to Condition 5.1, conform to the Specification in all material respects.
- 8.2 If, at any time during the Warranty Period, the Customer becomes aware of a breach of the warranty at Condition 8.1, the Customer will:
- 8.2.1 give written notice of the breach to the Supplier, such notice to be given within 5 days after the Customer becomes aware of the breach and prior to expiry of the Warranty Period;
- 8.2.2 at the Supplier's option either return to the Supplier (at the Customer's cost) the relevant Goods or permit the Supplier or its agent or subcontractor to inspect the relevant Goods at the Customer's premises; and
- 8.2.3 provide to the Supplier all information and assistance which the Supplier may reasonably require to investigate the alleged breach.
- 8.2 Subject to Condition 10.4, the Supplier's only Liability for breach of the warranty at Condition 8.1, and the Customer's only remedy, will be, at the Supplier's option, to repair or replace the relevant Goods.
- 8.3 The Customer's only remedy for breach of the obligation at Condition will be in damages.
- 8.5 Subject to Condition 10.4, the Supplier will not have any Liability for a breach of the warranty a Condition 8.1 if:
- 8.5.1 the Customer does not comply with its obligations at Condition 8.2 in respect of the breach;

- 8.5.2 notice of the breach should have been but was not given to the Supplier under Condition 5.1;
- 8.5.3 the relevant defect was caused by damage in transit after Delivery;
- 8.5.4 the relevant defect was caused by fair wear and tear:
- 8.5.5 the relevant defect was caused or exacerbated by improper use, handling, alteration, installation, repair, maintenance, storage or failure to comply with instructions provided by the Supplier or the manufacturer; or
- 8.5.6 the Customer makes further use of the relevant Goods after discovering the relevant breach.
- 8.6 The warranty under Condition 8.1 will apply to any Goods which are repaired or replaced under Condition 8.3 for the remainder of the original Warranty Period.

Subject to Condition 10.4, all other warranties, conditions and other terms implied by law (whether by statute, common law or otherwise) are excluded from the Contract.

SERVICES

The Supplier warrants to the Customer that it will provide the Services with reasonable care and skill.

The Supplier will use reasonable endeavours to provide the Services on the estimated performance date set out in the Order Acknowledgement, but time for provision of the Services will not be of the essence of the Contract. Any performance dates given by the Supplier are estimates only.

10 EXCLUSIONS AND LIMITATIONS OF LIABILITY

10.1 The Customer's attention is particularly drawn to this Condition

this Condition.

Subject to Condition 10.4, the Supplier's entire Liability for any non-delivery of Goods or failure to deliver the Goods in accordance with the timescales set out or referred to in the Contract will be as set out in Condition 4.4 and the Supplier will have no other Liability for any such non-delivery or failure to deliver. Such Liability will be subject to Condition 10.2 and will be taken into account in calculating whether the financial limit in Condition 10.2 has been reached.

- 10.1 Subject to Condition 10.4, the Supplier's maximum aggregate Liability will be limited to a sum that is equal to 100% of the price payable under the Contract.
- 10.3 The Supplier will have no Liability to the Customer for any:
- 10.3.1 loss of profit (whether direct, indirect or consequential):
- 10.3.2 loss of use, loss of revenue, loss of production or loss of business (in each case whether direct, indirect or consequential);
- 10.3.3 loss of goodwill, loss of reputation or loss of opportunity (in each case whether direct, indirect or consequential);
- 10.3.4 loss of anticipated savings or loss of margin (in each case whether direct, indirect or consequential);
- 10.3.5 loss of bargain (whether direct, indirect or consequential);
- 10.3.6 liability of the Customer to third parties (whether direct, indirect or consequential);
- 10.3.7 loss of use or value of any data or software (whether direct, indirect or consequential);
- 0.3.8 wasted management, operational or other time (whether direct, indirect or consequential);
- 10.3.9 loss or damage arising out of any failure by the Customer to keep full and up to date security copies of any computer program and data held or used by or on behalf of the Customer (whether direct, indirect or consequential); or
- 10.3.10 indirect, consequential or special loss, subject always to Condition 10.4.
 - Nothing in the Contract will operate to exclude or restrict one party's Liability (if any) to the other: for death or personal injury resulting from its
- 10.4.1 for death of personal injury resculing from its personal for the negligence of a person for whom it is vicariously liable (negligence being as defined in Section 1(1) Unfair Contract Terms Act 1977);
- 10.4.2 for its fraud or fraudulent misrepresentation or fraud or fraudulent misrepresentation by a person for whom it is vicariously liable; or
- 10.4.3 for any matter for which it is not permitted by law to exclude or limit, or to attempt to exclude or limit, its liability.
- 10.5 Nothing in this Condition 10 will prevent or restrict the right of a party to seek injunctive relief or specific performance or other discretionary remedies of the court.
- 10.6 The exclusions from, and limitations of, liability set out in this Condition 10 will be considered severally. The invalidity or unenforceability of any one sub-clause or clause will not affect the validity or enforceability of any other sub-clause or clause and will be considered severable from each other.
- 10.7 Each of the Supplier's employees, agents and sub-contractors will be entitled to enforce all the terms of this Condition 10 subject to and in accordance with the Contracts (Rights of Third Parties) Act 1999 and the terms of the Contract.

Accordingly and for the avoidance of doubt the financial limits on liability set out in Condition 10 are the maximum liability of the Supplier, its employees, agents and sub-contractors in aggregate.

11 INTELLECTUAL PROPERTY

11.1 Nothing in the Contract will operate to transfer to the Customer or to grant to the Customer any licence or other right to use any of the Supplier's Intellectual Property Rights, save that the Customer may use the Supplier's Intellectual Property Rights in the Goods and/or Services solely to the extent necessary to use the Goods and/or Services for the purpose for which they were supplied.

12 CUSTOMER OBLIGATIONS

- 12.1 The Customer will:
- 12.1.1 provide the Supplier with all such information and assistance as the Supplier may reasonably require from time to time to perform its obligations or to exercise any of its rights under the Contract:
- 12.1.2 notify the Supplier within 24 hours of:
- 12.1.2.1any discussions, negotiations or proposals with or to any one or more of the Customer's creditors in relation to any composition, compromise, arrangement or scheme of arrangement of debt or debts owed to any such creditor; or
- 12.1.2.2any discussions, negotiations or proposals with any person in relation to the insolvency of the Customer;
- 12.1.3 not re-package the Goods or remove or alter any trade marks, patent numbers, serial numbers or other identifying marks on the Goods or their packaging or add any other trademarks, patent numbers, serial numbers or other identifying marks to the Goods or their packaging;
- 12.1.4 not alter or modify the Goods in any way; and
 12.1.5 comply with the Supplier's instructions in
 connection with any product recall initiated by the
 Supplier involving the Goods (or any of them).
- 12.2 Notwithstanding any other term of the Contract, the Supplier will not be in breach of the Contract to the extent its failure to perform or delay or defect in performance of its obligations under the Contract arises as a result of:
- 12.2.1 any breach by the Customer of its obligations contained in the Contract;
- 12.2.2 the Supplier relying on any incomplete or inaccurate data provided by a third party; or
- 12.2.3 the Supplier complying with any instruction or request by the Customer or one of its employees

13 TERMINATION

If a party:

- 13.1.1 commits a material breach of the Contract which cannot be remedied: or
- 13.1.2 commits a material breach of the Contract which can be remedied but fails to remedy that breach within 30 days of a written notice setting out the breach and requiring it to be remedied being given by the other party, the other party may terminate the Contract immediately by giving written notice to that effect to the party in breach provided that the notice to terminate is given within 1 month from the date of the material breach occurring or the terminating party becoming aware of it, whichever is the later.
- 13.2 A material breach can be remedied if the party in breach can comply with the relevant obligation in all respects other than as to time of performance unless time of performance of such obligation is of the essence.
- 13.3 Condition 13.1 will not apply to any failure by the Customer to make any payment due to the Supplier under the Contract on or before the due date. Condition 13.4 will apply instead to any such failure.
- 13.4 If the Customer fails to make any payment due under the Contract on or before the due date, the Supplier may terminate the Contract by giving not less than 30 days' written notice to that effect to the Customer provided the Supplier has given to the Customer written notice of the failure to make payment and the Customer has still failed to make payment within 7 days of that written notice.
- 13.5 To the extent permitted by Applicable Law, the Supplier may terminate the Contract immediately by giving written notice to that effect to the Customer if the Customer suffers an Insolvency Event.
- 13.6 The Supplier may terminate the Contract immediately by giving written notice to the Customer if: (i) the Supplier has reasonable cause to believe that the continued performance of the Contract is or would be in breach of any Applicable Law relating to sanctions or exports imposed or re-imposed by a relevant body; or (ii) the Supplier has reasonable cause to believe that the Customer has breached or is likely to breach Condition 4.5.
- 13.7 Following expiry or termination of the Contract:
- 13.7.1 Conditions 1, 4, 4, 6, 7, 8, 10, 13.7, 13.8, 15, 22, 23 and 24 will continue in force, together with any other Conditions which expressly or impliedly continue to have effect after expiry or termination of the Contract: and

- 13.7.2 all other rights and obligations will immediately cease without prejudice to any rights, obligations, claims (including claims for damages for breach) and liabilities which have accrued prior to the date of expiry or termination.
- 13.8 Within 30 days after the date of expiry or termination of the Contract, on request by the other party, each party will return to the other party or destroy the other party's Confidential Information.

14 FORCE MAJEURE

- 14.1 The Supplier will not be in breach of the Contract or otherwise liable to the Customer for any failure to perform or delay in performing its obligations under the Contract to the extent that such failure or delay is due to a Force Majeure Event.
- 14.2 If a Force Majeure Event occurs:
- 14.2.1 the Supplier will as soon as reasonably practicable after becoming aware of the Force Majeure Event give written notice to the Customer that the Force Majeure Event has occurred; and
- 14.2.2 subject to Condition 14.3, the Supplier will not be in breach of the Contract or otherwise liable to the Customer for any failure to perform or delay in performing its obligations under the Contract to the extent that this is due to a Force Majeure Event affecting the Supplier.
- 14.3 If the Supplier is affected by a Force Majeure
 Event the Customer will continue to pay the
 Supplier's invoices in accordance with Condition
 7.6 in respect of any Goods and/or Services which
 the Supplier continues to supply notwithstanding
 the occurrence of the Force Majeure Event.
- 14.4 If a Force Majeure Event which gives rise to relief from liability under Condition 14.1 continues for a period of more than 60 days, either party will be entitled to terminate the Contract immediately by giving written notice to that effect to the other party.

15 CONFIDENTIALITY

Each party undertakes that it shall not at any time disclose to any person any confidential information concerning the business, affairs, customers, clients or suppliers of the other party or of any member of the Group to which the other party belongs ("Confidential Information") except as permitted by Condition 15.2.

- 5.1 Each party may disclose the other party's Confidential Information:
- 15.2.1 to its employees, officers, representatives or advisers who need to know such information for the purposes of exercising the party's rights or carrying out its obligations under or in connection with the Contract. Each party shall ensure that its employees, officers, representatives or advisers to whom it discloses the other party's Confidential Information comply with this Condition 15: and
- 15.2.2 as may be required by Applicable Law, a court of competent jurisdiction or any governmental or regulatory authority.

Neither party shall use any other party's Confidential Information for any purpose other than to exercise its rights and perform its obligations under or in connection with the

16 DATA PROTECTION

Each party will comply with the Data Protection Laws applicable to it.

17. TRADE RESTRICTIONS

- 7.1 The Customer hereby acknowledges and agrees that the supply of the Goods and/or Services may be subject to Trade Restrictions.
- 7.2 The Supplier reserves the right to carry out screening and background checks on the Customer prior to the supply of the Goods and/or Services and at any time during the performance of the Contract. The Customer shall provide all assistance to the Supplier that the Supplier reasonably requires in relation to such checks.
- 17.3 The Customer is solely responsible for complying with and shall not do anything which would cause the Supplier to be in breach of, Trade Restrictions. In particular, the Customer warrants and represents that it:
- 17.3.1 is not, and is not owned or controlled by a Sanctioned Party;
- 7.3.2 will not use, sell, resell, export, re-export, transfer, distribute, dispose of, disclose or otherwise deal with the Goods and/or Services, directly or indirectly, to: (i) any country, territory, or destination with which the Supplier, as a matter of policy, does not conduct business (including but without limitation to Iran, Syria, Sudan, Cuba, Crimea & Sevastopol and North Korea, and any other territory subject to comprehensive Trade Restrictions from time to time); (ii) any other territory to which the supply of the Goods and/ or Services would be restricted or prohibited under Trade Restrictions (subject to the Customer obtaining any and all licences and/ or approvals required to make such a supply); or (iii) any Sanctioned Party (or any party owned or controlled by a Sanctioned Party);
- 17.3.3 will obtain and maintain any required export licence or other governmental approval and complete such formalities as may be required under Trade Restrictions in order to use, sell, resell, export, re-export, transfer, distribute,

- dispose of, disclose or otherwise deal with the Goods and/or Services; and
- 17.3.4 will not put the Goods and/or Services, in their entirety or in part, to any use in connection with the development, production, handling, operation, maintenance, storage, detection, identification or dissemination of chemical, biological or nuclear weapons or the development, production, maintenance or storage of missiles capable of delivering such weapons or to any military end-use in violation of any applicable embargo (including, but not limited to, embargoes maintained by the EU, UK, OSCE and/or UN). In addition, the Customer shall not sell, resell, supply, export, re-export, transfer, divert, distribute or dispose of the Goods and/or Services to any third party where the Customer knows or has grounds for suspecting that the Goods and/or Services are or may be intended for one of the uses specified in this Condition.
- 17.4 In addition to any other remedy available to the Supplier, the Customer shall indemnify, keep indemnified and hold harmless (on a full indemnity basis) the Supplier and its affiliates, officers and personnel against any and all direct or indirect liabilities, claims, demands, damages, losses or expenses (including legal and other professional advisers' fees and disbursements), interest and penalties suffered or incurred as a result of any breach of this Condition 17. The Supplier reserves the right to terminate the Contract immediately upon written notice and without penalty in the event of such breach.
- 17.5 The Supplier shall not be obliged to perform any obligation under the Contract and shall have the right to terminate the Contract, without being liable for any damages or costs of any kind, if in its sole discretion it reasonably believes that such performance in full or in part would place it in violation of any Trade Restrictions (including, for the avoidance of doubt, if such violation would be the result of any delay to, or refusal of, the grant of any (licence required under Trade Restrictions).
- 17.6 Nothing in this Condition 17 shall require either party to act in any way contrary to any blocking or antiboycott laws with jurisdiction over such party's operations, including (if applicable) the Anti-Foreign Sanctions Law of the People's Republic of China.

18 ANTI-SLAVERY

18.1 The Customer shall comply with all applicable anti-slavery and human trafficking laws, statutes, regulations and codes from time to time in force including but not limited to the UK Modern Slavery Act 2015 and will not engage in any activity, practice or conduct that would constitute an offence under sections 1, 2 or 4, of the Modern Slavery Act 2015.

19 ANTI-BRIBERY

- 19.1 Each party will comply with all Applicable Laws, regulations, codes and sanctions relating to anti-bribery and anti-corruption including, but not limited to:
- 19.1.1 local and national laws in the territories in which it operates:
- 19.1.2 the UK Bribery Act 2010;
- 19.1.3 the US Foreign Corrupt Practices Act 1977; and
- 19.1.4 the UN Convention Against Corruption;
- 19.1.5 in relation to the Supplier only, comply with the Supplier Group's code of conduct relating to bribery and corruption (as amended from time to time) found at www.halma.com.
- 19.2 The Customer shall (and shall procure that its Associated Persons shall):
- Associated Persons shall):

 19.2.1 not make any offer, payment, promise to pay, or authorise the giving of any monies or financial or other advantage to any person: (i) for the purpose of inducing or rewarding that person (or any other person) to perform their role or function improperly; (ii) for the purpose of influencing a public official in relation to any decision, act or other performance (including failure to perform) of their official role or function, with the intention of obtaining or retaining business or a business advantage; or (iii) that is otherwise for the purpose of improperly obtaining or retaining business or a business advantage of any kind;
- 19.2.2 not request, agree to receive, or accept, any monies or financial or other advantage in return or as a reward for performing their role or function improperty;
- 19.2.3 not engage in any other activity, practice or conduct which would constitute an offence under any other applicable anti-corruption or anti-bribery legislation, or that would place the Supplier in breach of such legislation; and
- 19.2.4 have, maintain in place and enforce throughout the term of any Contract its own policies and procedures, including but not limited to adequate procedures to ensure compliance with any applicable anti-bribery legislation and the requirements of this Condition 19.

20 TAX

20.1 The Customer shall (and shall procure that its Associated Persons shall) comply with all applicable taxation laws and shall not commit an offence consisting of the evasion of tax, or the facilitation of tax evasion by another person.

20.2 The Supplier may terminate the Contract immediately upon written notice to the Customer where it reasonably believes that the Customer has breached Condition 20.1 and the Customer shall indemnify the Supplier from all damages, penalties, fines and/or costs of any kind arising from, or relating to, any breach of Condition 20.1.

21 ASSIGNMENT AND SUB-CONTRACTING

- 21.1 The Supplier will be entitled to assign, transfer, charge, hold on trust for any person and deal in any other manner with any of its rights under the Contract.
- 21.2 The Customer will not be entitled to assign, transfer, charge, hold on trust for any person or deal in any other manner with any of its rights under the Contract without the Supplier's prior written consent.
- 21.3 The Supplier will be entitled to sub-contract any of its obligations under the Contract.
- 21.4 The Customer will not be entitled to sub-contract any of its obligations under the Contract without the Supplier's prior written consent.

22 NOTICE

- 22.1 Subject to Condition 22.3, any notice given under or in connection with the Contract will be in the English language and:
- 22.1.1 sent to the relevant party's address by pre-paid first class post, or airmail post or mail delivery service providing guaranteed next working day delivery and proof of delivery; or
- 22.1.2 delivered to or left at the relevant party's address (but not, in either case, by one of the methods set out in Condition 22.1.1); or
- 22.1.3 sent by e-mail to that party's e-mail address.

 Any notice given in accordance with Condition
- 22.1 will be deemed to have been served if given:
 22.2.1 by first class post or mail delivery service in each
 case as set out in Condition 22.1.1, at 9.00 a.m.
 on the second Business Day after the date of
 posting:
- 22.2.2 by airmail post as set out in Condition 22.1.1, at 9.00 a.m. on the tenth Business Day after the date of posting;
- 22.2.3 as set out in Condition 22.1.2, at the time the notice is delivered to or left at that party's address; and
- 22.2.4 as set out in Condition 22.1.3, at the time of sending the e-mail, provided that if a notice is deemed to be served before 9.00am on a Business Day it will be deemed to be served at 9.00am on that Business Day and if it is deemed to be served on a day which is not a Business Day or after 5.00pm on a Business Day it will be deemed to be served at 9.00am on the immediately following Business Day.
- 22.3 This Condition 22 will not apply to the service of any proceedings or other documents in a legal action to which the Civil Procedure Rules apply.

23 GENERAL

- 23.1 The Contract constitutes the entire agreement between the parties and supersedes any prior agreement or arrangement in respect of its subject matter and:
- 23.1.1 neither party has entered into the Contract in reliance upon, and it will have no remedy in respect of, any misrepresentation, representation or statement (whether made by the other party or any other person and whether made to the first party or any other person) which is not expressly set out in the Contract;
- 23.1.2 the only remedies available for any misrepresentation or breach of any representation or statement which was made prior to entry into the Contract and which is expressly set out in the Contract will be for breach of contract; and
- 23.1.3 nothing in this Condition 23.1 will be interpreted or construed as limiting or excluding the liability of any person for fraud or fraudulent misrepresentation.
- 23.2 A delay in exercising or failure to exercise a right or remedy under or in connection with the Contract will not constitute a waiver of, or prevent or restrict future exercise of, that or any other right or remedy, nor will the single or partial exercise of a right or remedy prevent or restrict the further exercise of that or any other right or remedy. A waiver of any right, remedy, breach or default will only be valid if it is in writing and signed by the part giving it and only in the circumstances and for the purpose for which it was given and will not constitute a waiver of any other right, remedy, breach or default.
- 23.3 If any term of the Contract is found by any court or body or authority of competent jurisdiction to be illegal, unlawful, void or unenforceable, such term will be deemed to be severed from the Contract and this will not affect the remainder of the Contract which will continue in full force and office.
- 23.4 No variation to the Contract will be effective unless it is in writing and signed by a duly authorised representative on behalf of the Supplier.
- 23.5 Nothing in the Contract and no action taken by the parties in connection with it or them will create a partnership or joint venture or relationship of employer and employee between the parties or give either party authority to act as the agent of or

- in the name of or on behalf of the other party or to bind the other party or to hold itself out as being entitled to do so.
- 23.6 Each party agrees that it is an independent contractor and is entering into the Contract as principal and not as agent for or for the benefit of any other person.
- 23.7 The Supplier's employees, agents and subcontractors will be entitled to enforce Condition 10 subject to and in accordance with the Contracts (Rights of Third Parties) Act 1999 and the terms of the Contract.
- 23.8 The parties may vary or rescind the Contract without the consent of the Supplier's employees, agents or sub-contractors.
- 23.9 Save as provided in Condition 23.7, the parties do not intend that any term of the Contract will be enforceable under the Contracts (Rights of Third Parties) Act 1999 by any person.
- 23.10 The Supplier's rights and remedies set out in these Conditions are in addition to and not exclusive of any rights and remedies provided by law

GOVERNING LAW AND JURISDICTION

- 4.1 The Contract and any non-contractual obligations arising out of or in connection with it will be governed by the law of England and Wales.
- 24.2 All disputes which may arise, under, out of, or in connection with, or in relation to the Contract, including any question regarding its existence, validity or termination, shall be referred to and finally settled by arbitration under the London Court of International Arbitration (LCIA) under and in accordance with the LCIA Rules at the date thereof, which Rules are deemed to be incorporated by reference into this condition. The number of arbitrators shall be one. The seat, or legal place, of arbitration shall be England and the language used in the arbitral proceedings shall be English.

25 DEFINITIONS

The following words and expressions have the following meanings in our terms and conditions unless the context requires otherwise:

- "Applicable law" means any: (a) law including any statute, statutory instrument, bye law, order, regulation, directive, treaty, decree, decision (as referred to in Article 288 of the Treaty on the Functioning of the European Union); (b) legally binding rule, policy, guidance or recommendation issued by any governmental, statutory or regulatory body; and/or (c) legally binding industry code of conduct or guideline, in each case in force from time to time which relates to the Contract and/or the Goods and/or the Services; "Associated Persons" means any person performing services for or on behalf of a party, including but not limited to subsidiaries, employees, agents, distributors and contractors;
- **"Business Day"** means a day that is not a Saturday, Sunday or public or bank holiday in England and/or Wales;
- "Charges" means the charges for the Services set out in the Supplier's quotation as those charges may be varied from time to time in accordance with Condition 7.4;
- "Conditions" means our standard terms and conditions of supply, as varied from time to time in accordance with Condition 23.4;
- "Confidential Information" has the meaning given to it in Condition 15.1; "Contract" means the contract between the Supplier and the Customer for the supply of the Goods and/or Services formed in accordance with Condition 2;
- "Customer" means the person named as the customer in the Order;
- "Delivery" means delivery or making available (if that is the case depending of the method of delivery/Incoterm used) of the Goods in accordance with Condition 4.1 and "Deliver" and "Delivered" shall be interpreted accordingly; "Expenses" means those travel, accommodation and subsistence expenses incurred by the Supplier from time to time in performing the Services:
- "Force Majeure Event" means (a) act of God; (b) war, insurrection, riot, civil commotion, act or threat of terrorism; (c) lightning, earthquake, fire, flood, storm, or extreme weather condition; (d) theft, malicious damage; (e) strike, lockout, industrial dispute (whether affecting the workforce of a party and/or any other person); (f) pandemic, epidemic or public health crisis (g) breakdown or failure of plant or machinery; (h) inability to obtain essential supplies or materials; (i) change in Applicable Law; (ii) any failure or default of a supplier or sub-contractor of the Supplier; or (k) any event or circumstance to the extent it is beyond the reasonable control of the Supplier;
- "Goods" means the goods set out in the Order;
- "Group" means in relation to a company, that company, any subsidiary or any holding company from time to time of that company, and any subsidiary from time to time of a holding company of that company, Each company in a "Group" is a "member of the Group";
- "Insolvency Event" means the occurrence of any of the following events in relation to a party: (a) any step or action is taken, any notice,

document, petition or application is filed at court, or any resolution is passed, in connection with the affected party entering administration, a moratorium, provisional liquidation, a company voluntary arrangement, an arrangement under Part 26A of the Companies Act 2006 or any other composition or arrangement with its creditors (other than in relation to a solvent restructuring), bankruptcy, being wound up (whether voluntarily or by order of the court, unless for the purpose of a solvent restructuring) or having a receiver appointed over any of its assets; (b) an event similar or analogous to those listed in (a) above occurs under the law of any jurisdiction of the affected party; or (c) the affected party suspends, or threatens to suspend, or ceases, or threatens to cease, to carry on all or a substantial part of its business; "Intellectual Property Rights" means all

"Intellectual Property Rights" means all intellectual and industrial property rights of any kind whatsoever including patents, supplementary protection certificates, rights in know-how, registered trademarks, registered designs, models, unregistered design rights, unregistered trademarks, rights to prevent passing off or unfair competition and copyright (whether in drawings, plans, specifications, designs and computer software or otherwise), database rights, topography rights, any rights in any invention, discovery or process, and applications for and rights to apply for any of the foregoing, in each case in the United Kingdom and all other countries in the world and together with all renewals, extensions, continuations, divisions, reissues, re-examinations and substitutions;

"Liability" means liability arising out of or in connection with the Contract, whether in contract, tor, misrepresentation, restitution, under statute or otherwise, including any liability under an indemnity contained in the Contract and/or arising from a breach of, or a failure to perform or defect or delay in performance of, any of a party's obligations under the Contract and/or any defect in any of the Goods, in each case howsoever caused including if caused by negligence or if caused by a deliberate and/or repudiatory breach by that party;

"Order" means the Customer's order for the supply of goods and/or services by the Supplier;

"Order Acknowledgement" means the Supplier's written acceptance of the Order;

"Prices" means the prices for the Goods set out in the Supplier's current price list, or as otherwise set out in the Supplier's quotation (if any quotation is provided) as those prices may be varied from time to time in accordance with Condition 7.4;

"Sanctioned Party" means any party or parties listed on any list of designated or other restricted parties maintained under Trade Restrictions, including but not limited to the Consolidated List of Financial Sanctions Targets in the UK maintained by HM Treasury, the consolidated list of persons, groups and entities subject to EU financial sanctions maintained by the European Commission, and the Specially Designated Nationals and Blocked Persons List maintained by the US Office of Foreign Assets Control;
"Santiaes" means the sentires set out in the

"Services" means the services set out in the Order;

"Specification" means the written technical specification for the Goods; "Supplier" means Palintest Limited (registered number 01204118) whose registered office is at Palintest House, Kingsway, Team Valley Trading Estate, Gateshead, Tyne and Wear, NE11 0NS;

"Trade Restrictions" means any applicable export controls, trade or economic sanctions, embargoes or similar laws, regulations, rules, licences, orders or requirements including, without limitation those of the UN, UK, U.S. and the EU;

"VAT" means value added tax; and

"Warranty Period" has the meaning given to it in Condition 8.1.

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