

# Palintest

Water Analysis Technologies



SOIL KITS

POOL AND SPA WASTEWATER DRINKING WATER PROCESS WATER **SOIL**

## About us

Palintest is a leading company in the design and manufacture of water analysis technologies, supplying a comprehensive range of precision instruments for multidisciplinary analysis.

### A global company with a local approach

•USA •UK •China •Australia



## Application areas



### Drinking water

Test kits for water treatment and supply



### Soil and irrigation

Test kits for optimising crop yields



### Pool and spa

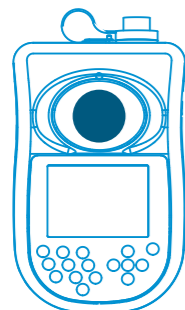
Kits for commercial and residential sectors



### Process industries

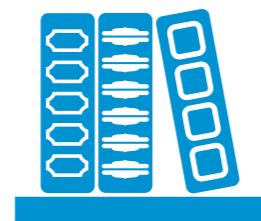
Test kits for industrial processes

## Product range



From multiparameter photometers to visual test kits. Palintest has a wide range of solutions for every application.

## Water testing library



Our online library contains research and insight surrounding our products and the applications they are used in.

## Soil Nutrient Testing

Soil is a precious but non-renewable resource. It sustains life across the globe by providing the basis for healthy food production, fuel, fibres for clothing and medicinal products. Protecting and managing soil health requires a focus on soil macronutrients and micronutrients. Testing ensures soil is capable of supporting a growing population whilst protecting the environment.

### Key benefits of Palintest soil kits:

#### Simplified soil testing methods

Validated against standard laboratory approaches.

#### Suitability for field or laboratory use

Provided in robust field cases for in field soil testing. Our test kits offer an economical and simple test solution which is equally suitable for in field and laboratory testing.

#### Data management and technical support

Store, share, manage and map the soil analysis data produced using the AquaPal app and secure Palintest Portal.

### Photometer feature key



#### Tablet icon

This instrument is compatible with tablet reagents.



#### Tubetest icon

This instrument is compatible with liquid tubetests reagents.



#### USB icon

This instrument includes a data transfer function via USB.



#### Bluetooth icon

This instrument includes a data transfer function via Bluetooth.

# Soiltest 10 Bluetooth

Equipped with Bluetooth connectivity, the Soiltest 10 Bluetooth® delivers accurate soil nutrient testing in a robust and portable photometer.

## Choose Your Soil Kit

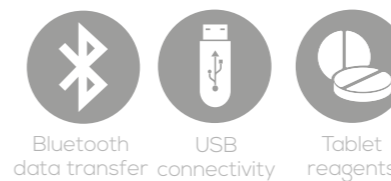
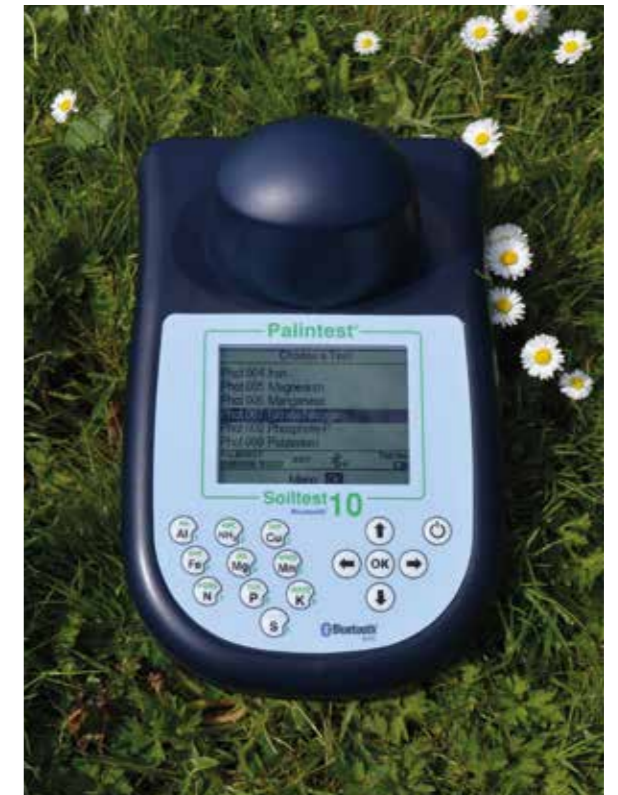


Parameter	SK 100 Soil pH/Lime Requirement Kit	SK 200 Soil Fertility Kit	SK 300 Soil Management Kit	SKW 400 Professional Soil Management Kit	SKW 500 Complete Soil Kit
Soil pH	•	•	•	•	•
Lime Requirement	•	•	•	•	•
Nitrate Nitrogen (N)		•	•	•	•
Phosphate (P)		•	•	•	•
Potassium (K)		•	•	•	•
Magnesium (Mg)			•	•	•
Calcium (Ca)			•	•	•
Conductivity			•	•	•
Salinity				•	•
Aluminium (Al)					•
Ammonia Nitrogen (N)					•
Chloride (Cl)					•
Copper (Cu)					•
Iron (Fe)					•
Manganese (Mn)					•
Sulfur (S)					•
<b>Test Equipment</b>					
Soiltest 10 Bluetooth				•	•
Nitrogen/Phosphate/Magnesium (N/P/Mg) Tester Block		•	•		
Double Tube Assembly Potassium (K)		•	•		
Multiparameter Pocket Sensor				•	•
Soil pH Tester Block	•	•	•		
Pocket Conductivity Sensor			•		
<b>Case</b>					
	Hard case with protective foam inner	Soft shoulder case with protective foam inner	Soft shoulder case plus hard case, both with protective foam inner	IP67 Waterproof case with integral work surface	IP67 Waterproof case with integral work surface

The Soiltest 10 includes:

- Mains or battery powered and completely waterproof – ideal for portable use during field soil nutrient studies, or permanently based in the laboratory
- Complete range of soil test parameters – access the 10 tests from the keypad and add up to 30 more methods as required
- Results can be downloaded via USB or via Bluetooth for use with the Palintest AquaPal App.

The Soiltest 10 Bluetooth is included in both the SKW 400 Professional Soil Management Kit and the SKW 500 Complete Soil Kit.



### Technical Specification

<b>Instrument Type</b>	Dual light source colorimeter offering direct reading of pre-programmed test calibrations, Absorbance and Transmittance.
<b>Peak Wavelengths:</b>	450nm, 500nm, 550nm, 570nm, 600nm, 650nm
<b>Accuracy:</b>	±1.0% T
<b>Display:</b>	320 x 240 pixel LCD with backlight and contrast adjustment for all light conditions
<b>User Interface:</b>	On-screen prompts available in English, French, Spanish, German, Italian, Turkish and Mandarin (Chinese).
<b>Size (W x L x H) and Weight</b>	150 x 250 x 70mm, 975 g
<b>IP Rating:</b>	IP67
<b>Power Supply</b>	3 x 1.5v 'AA' batteries, mains power delivered via USB port
<b>Connectivity</b>	Palintest Bluetooth (4.0) profile and USB for data download, software upload
<b>Memory Capacity:</b>	Up to 500 data sets. Each data set includes date, time, Sample ID, Operator ID, method number, method name, result, units



# SKW 500 Complete Soil Kit

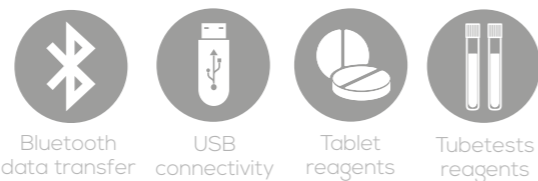
Combining the accuracy of the Soiltest 10 photometer with the simplicity of Palintest soil test methods. The SKW 500 provides agronomists, soil scientists and farming professionals alike with a robust portable soil laboratory for macronutrients and micronutrients.



The SKW 500 includes:

- Simple yet reliable test protocols for macronutrients (soil pH, N/P/K), micronutrients and trace minerals including sulfur, manganese and magnesium
- Includes the waterproof and Bluetooth-enabled Soiltest 10 photometer plus the Multiparameter Pocket Sensor for laboratory accuracy in the field
- Provided in an IP67 durable field case including all reagents and apparatus to begin soil testing immediately

Packed with 30 years of experience of simplifying soil nutrient testing, the SKW 500 Complete Professional Soil Kit brings the soil laboratory to the field.



## Ordering Information

SKW 500	Complete Soil Kit
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## Technical Specification

Size (W x L x H)	555 x 428 x 211 mm
Weight	10.5 kg



Soil tests included:

Parameter	Range*
Soil pH	0 - 14
Lime Requirement	0 - 34 tonne/ha
Conductivity	0 - 19.9 mS/cm
Salinity	0 - 1%
Nitrate Nitrogen (N)	0 - 25 mg/L N
Phosphate (P)	0 - 150 mg/L P
Potassium (K)	0 - 450 mg/L K
Magnesium (Mg)	0 - 500 mg/L Mg
Calcium (Ca)	0 - 2500 mg/L Ca
Aluminium (Al)	0 - 50 mg/L Al
Ammonia Nitrogen (N)	0 - 75 mg/L N
Chloride (Cl)	0 - 1000 mg/L Cl
Copper (Cu)	0 - 25 mg/L Cu
Iron (Fe)	0 - 25 mg/L Fe
Manganese (Mn)	0 - 25 mg/L Mn
Sulfur (S)	0 - 300 mg/L S

\*Ranges can be extended

## SKW 500 Complete Soil Kit Contents

Photometric Testing Hardware	Soiltest 10 Bluetooth, waterproof USB cable, cuvette rack, 8 cuvettes, Check Standards set with certificate
Electrochemical Testing Hardware	Multiparameter Pocket Sensor, pH 4.0/7.0/10.0 buffer solutions, conductivity calibration standard
Reagents	Complete reagent set for 50 tests per each specified parameter including extraction and test reagents
Sample Preparation/Accessories	De-ion pack, soil sample bags, soil scoops, filter funnels and paper, sample container/dilution tubes, syringes, crush/stir rods, cuvette brush
Ancillaries	Integrated work surface, instructions, protective foam inserts, IP67 waterproof lockable carry case

# SKW 400 Professional Soil Management Kit

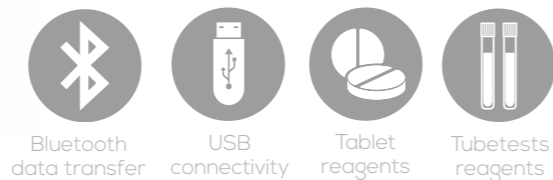
The SKW 400 Professional Soil Management Kit provides fundamental soil nutrient testing capability with the space to add up to seven additional soil reagent packs.



The SKW 400 includes:

- Simple, field-ready soil test methods for macro nutrients (soil pH, N/P/K), calcium, magnesium and conductivity
- Includes both the Bluetooth enabled Soiltest 10 photometer and the Multiparameter Pocket Sensor
- Protected by a waterproof field case with integral work surface for soil testing in any location

Make the critical soil nutrient decisions in the field using the SKW 400 Professional Soil Management Kit.



Bluetooth data transfer    USB connectivity    Tablet reagents    Tubetests reagents

## Ordering Information

SKW 400 Professional Soil Management Kit

## Technical Specification

Size (W x L x H) 555 x 428 x 211 mm  
Weight 9.5 kg



Soil tests included:

Parameter	Range*
Soil pH	0 - 14
Lime Requirement	0 - 34 tonne/ha
Conductivity	0 - 19.9 mS/cm
Salinity	0 - 1%
Nitrate Nitrogen (N)	0 - 25 mg/L N
Phosphate (P)	0 - 150 mg/L P
Potassium (K)	0 - 450 mg/L K
Magnesium (Mg)	0 - 500 mg/L Mg
Calcium (Ca)	0 - 2500 mg/L Ca

\*Ranges can be extended

## Kit Contents

Photometric Testing Hardware	Soiltest 10 Bluetooth, waterproof USB cable, cuvette rack, 8 cuvettes, Check Standards set with certificate
Electrochemical Testing Hardware	Multiparameter Pocket Sensor, pH 4.0/7.0/10.0 buffer solutions, conductivity calibration standard
Reagents	Complete reagent set for 50 tests per each specified parameter including extraction and test reagents
Sample Preparation/Accessories	De-ion pack, soil sample bags, soil scoops, filter funnels and paper, sample container/dilution tubes, syringes, crush/stir rods, cuvette brush
Ancillaries	Integrated work surface, instructions, protective foam inserts, IP67 waterproof lockable carry case

# SK 300 Soil Management Kit

Measure soil pH, conductivity, magnesium, calcium and macronutrients nitrogen, phosphate and potassium. All using simple visual test methods in a durable soil test kit, expertly designed for field use.



The SK 300 includes:

- Visual test equipment and reagents for soil pH, lime requirement, macronutrients (N, P, K), magnesium and calcium testing
- Pocket Conductivity Sensor for soil conductivity and soluble salt testing for areas of salinisation concern
- Provided in a shoulder bag and hard case containing all components required to commence soil testing immediately

Manage soil and crop nutrition effectively using the simple visual soil test methods and Pocket Conductivity Sensor included in the SK 300 Soil Management Kit.



Tablet reagents

## Ordering Information

SK 300	Soil Management Kit
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## Kit Contents

Visual Testing Hardware	Soiltester for soil pH. Soiltester for Nitrogen (N), Phosphate (P) and Magnesium (Mg). Double Tube Assembly for Potassium (K). Tablet count container for Calcium (Ca)
Electrochemical Testing Hardware	Pocket Conductivity Sensor for soil conductivity and salinity including calibration standard
Reagents	Complete reagent set for 50 tests for soil pH, lime requirement, nitrogen, phosphate, potassium, magnesium and calcium including extraction and test reagents
Sample Preparation/ Accessories	De-ion pack, soil sample bags, soil scoops, filter funnels and paper, sample container/dilution tubes, syringe, crush/stir rods, cuvette brush
Ancillaries	Shoulder bag and hard case

# SK 200 Soil Fertility Kit

Measure soil pH and macronutrients: nitrogen, phosphate and potassium, in a simple visual soil test kit containing reagents and hardware for effective soil fertility monitoring.



The SK 200 includes :

- Measure soil pH, lime requirement and macronutrients (N/P/K) using simple visual soil testing methods
- Complete soil test kit including reagents and hardware contained in a single shoulder case
- Developed specifically for portable use by a range of users such as agronomists, farming and fertiliser professionals

Improve crop yield and protect the environment from over-fertilisation with simple soil macronutrient testing in a portable soil test kit.



Tablet reagents

## Ordering Information

SK 200	Soil Fertility Kit
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## Kit Contents

Visual Testing Hardware	Soil tester for soil pH. Soil tester for Nitrogen (N) and Phosphate (P). Double Tube Assembly for Potassium (K).
Reagents	Complete reagent set for 50 tests for soil pH, lime requirement, nitrogen, phosphate and potassium including extraction and test reagents
Sample Preparation/ Accessories	De-ion pack, soil sample bags, soil scoops, filter funnel and paper, sample container/dilution tubes, crush/stir rods, cuvette brush
Ancillaries	Shoulder bag



# SK 100 Soil pH and Lime Requirement Kit

Soil pH is the most important single parameter for soil testing, providing not just information about the acidity or alkaline nature of soil but also the availability of key nutrients.



The SK 100 Soil pH and Lime Requirement Kit includes:

- pH Soiltester and reagents for 50 tests - clear visual soil pH testing with no requirement for calibration or maintenance
- Lime Requirement buffer tablets enhance soil pH testing by a simple follow on test to calculate lime dosing needs
- Provided in a robust field case to protect and store kit components including the unique Mini De-ion bottle

The SK 100 is a fundamental part of every crop or plant professional's toolkit, delivering rapid and reliable soil pH and lime requirement testing.



Tablet reagents

## Ordering Information

SK 100	Soil pH and Lime Requirement Kit
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## Kit Contents

Visual Testing Hardware	Soiltester for soil pH and lime requirement
Reagents	Complete reagent set for 50 soil pH and lime requirement tests
Sample Preparation/Accessories	Mini De-ion bottle, soil scoop, crush/stir rod, cuvette brush
Ancillaries	Hard case

# Soil Test Reagents

Formulated specifically for simplified soil test methods, Palintest Soil Test Reagents are provided in a convenient format for both field and laboratory use.

Key features include:

- Tablet format reagents - stable for up to 10 years, easy to use and suitable for any field and laboratory use.
- Available as convenient Combination Packs including both extract and test reagents and also as individual reagent packs
- Each pack contains sufficient reagents for at least 50 tests as standard
- Palintest Soil Test Reagents are compatible with current and previous model Soil Test Kits.

Part Code	Description	Combination Packs									
		SKR 001 Soil Nitrogen Pack	SKR 002 Soil Phosphorus Pack (Visual)	SKR 003 Soil Phosphorus Pack (Photometer)	SKR 004 Soil Potassium Pack	SKR 005 Soil Magnesium/Calcium Pack	SKR 006 Soil Aluminium Pack	SKR 007 Soil Ammonia Pack	SKR 008 Soil Copper Pack	SKR 009 Soil Iron Pack	SKR 010 Soil Manganese Pack
ST-2106	Extract N Powder	•									•
ST-2116	Extract P		•	•							
ST-2127	Extract K Powder				•						
ST-2136	Extract A					•	•	•			
ST-2146	Extract C							•	•		
ST-2200	Soil pH										
ST-2210	Lime Buffer										
ST-2237	Nitratetest N Powder	•									•
ST-2240	Nitricol	•									
ST-2260	Phosphate P		•	•							
ST-2275	Acidifying (Soil)			•							
ST-2276	Acidifying (Soil)		•								
ST-2280	Potassium (Soil)				•						
ST-2297	Calcium (Soil)					•					
ST-2320	Ammonia (Soil)						•				
ST-2345	Aluminium (Soil)						•				
ST-2367	Chloride (Soil)										
ST-2370	Iron mid range (Soil)									•	
ST-2395	Manganese (Soil)										•
ST-2410	Sulphate (Soil)										
ST-2440	Magnecol (Soil)					•					
ST-2455	Coppercol (Soil)								•		

See [www.palintest.com](http://www.palintest.com) for the full range of spares and accessories

# Additional Support

**2  
Year  
Warranty**

Register your Photometer to take advantage of the 2 year warranty and access our full range of technical support.

For further information and support, get in touch with a member of our team:



## Aqua Pal App

Available for iOS and Android, the Aqua Pal app provides seamless data management for the Soiltest 10 Bluetooth instrument and manual data upload from any other testing device

Track data by sample ID, operator ID and create site specific reporting and control profiles for individual customers

Text alerts and notifications when results are outside of defined limits



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Regular calibration and service will keep your instrument operating at optimum performance.

For enquires visit our website at:

[www.palintest.com](http://www.palintest.com)

Simply complete the form, and one of our team will get in touch.



Stay in touch @Palintest





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A HALMA COMPANY

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