

# 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

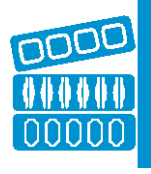


**Process industries**  
Test kits for industrial processes

## Product range



From multi-parameter photometers to visual test kits, Palintest has a wide range of solutions for every application.



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

## Water testing library

## 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	SK100 Soil pH/Lime Requirement Kit	SK200 Soil Fertility Kit	SK300 Soil Management Kit	SKW400 Professional Soil Management Kit	SKW500 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)		*	*	*	*
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			*		
Case	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:

- Runs on 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 Polintest AquaPel 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

Instrument Type	Dual light source colorimeter offering direct reading of pre-programmed test calibrations, Absorbance and Transmittance.
Test Wavelengths	430nm, 500nm, 550nm, 570nm, 600nm, 650nm
Accuracy	±1.0% T
Display	320 x 240 pixel LCD with backlight and contrast adjustment for all light conditions.
User Interface	On-screen prompts available in English, French, Spanish, German, Italian, Turkish and Mandarin (Chinese).
Size (W x L x H) and Weight	150 x 250 x 70mm, 975 g
IP Rating	IP67
Power Source	3 x 1.5v 'AA' batteries, mains power delivered via USB port
Connectivity	Polintest Bluetooth (4.0) profile and USB for data download, software upload
Memory Capacity	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 Pointtest 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 (N, P, K), micronutrients and trace elements including sulfur, manganese and magnesium
- Includes the waterproof and Bluetooth-enabled Soiltest 10 photometer plus the Pointtest Pochet Sensor for laboratory accuracy in the field
- Provided in an IP37 durable field case including calibration standards to begin soil testing immediately

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



Durability: IP37, ABS, stainless steel, rugged, high-visibility

### Ordering Information

SKW 500	Complete Soil Kit
Physical Specification	
Dimensions (L x W x H)	555 x 428 x 211 mm
Weight	10.5 kg



### Soil tests included:

Parameter	Range*
Soil pH	0 - 14
Lime Requirement	0 - 37 t/ha
Conductivity	0 - 19.9 mS/cm
Sulfur	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
Aluminum (Al)	0 - 50 mg/L Al
Ammonia Nitrogen (N)	0 - 75 mg/L N
Chloride (Cl)	0 - 1000 mg/L Cl
Copper (Cu)	0 - 05 mg/L Cu
Iron (Fe)	0 - 25 mg/L Fe
Manganese (Mn)	0 - 25 mg/L Mn
Sulfur (S)	0 - 200 mg/L S

\*Ranges can be extended

### SKW 500 Complete Soil Kit Contents

Photometric Testing Hardware	Soiltest 10 Bluetooth waterproof USB cable, cigarette pack, 8 cassettes, Check Standards set with certificate
Electrochemical Testing Hardware	Pointtest Pochet Sensor, pH 4, 0/7, 0/0 buffer solutions, conductivity calibration standard
Reagents	Complete reagent set for 50 tests over each specified parameter including extraction and test reagents
Sampling Equipment/Accessories	Denon pack, soil sample bags, soil scoops, filter funnels, vials, tubes, sample vial/culture/40 ml tubes, syringes, centrifuge rods, vortex mixer
Accessories	Integrated work surfaces, instructions, practical 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, fast-accuracy soil test methods for macro nutrients (soil pH, N/P/K), calcium, magnesium, and conductivity
- Includes both the Bluetooth-enabled Saltest 10 photometer and the FieldScan Junior Pocket Sensor
- Protected by a waterproof field case with rugged 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.



## Ordering Information

SKU #	Professional Soil Management Kit
Technical Specification	
Size (W x L x H)	555 x 428 x 211 mm
Weight	3.5 kg



## Soil tests included

Parameter	Range
Soil pH	0 - 14
Sum-Requirement	0 - 34 ton/ha
Conductivity	0 - 19.9 mS/cm
Salinity	0 - 1%
Nitrate Nitrogen (NO <sub>3</sub> )	0 - 25 mg/L/N
Phosphate (P)	0 - 150 mg/L/P
Potassium (K)	0 - 120 mg/L/K
Ammonium (NH <sub>4</sub> )	0 - 50 mg/L/N
Calcium (Ca)	0 - 7500 mg/L Ca

\*Ranges can be extended

## Kit Contents

Photometer, Testing Hardware	Saltest 10 Bluetooth, waterproof IP68 cable, interlock, 2 connectors, Check Standards, 10 v.1.1, 10 v.1.2 data
Electrode, Soil Testing Hardware	FieldScan Junior, Pocket Sensor, pH 4.0/7.0/10.0 buffer solutions, conductivity: calibration standard
Reagents	Complete reagent set for SC test's per each specified parameter including extractor and test reagents
Sample Preparation/Accessories	De-ion water, soil sample bags, soil scoops, filter funnel and paper, simple container/coldpack, tines, syringes, crush/sieve inserts
Accessories	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 complete soil testing in the field

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



### Ordering Information

SK 300	Soil Management Kit
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### Kit Contents

Visual Test Equipment/Case	Sollester for soil pH, Sollester for Nitrogen (N), Phosphate (P) and Magnesium (Mg), Double Tube Assembly for Potassium (K), Tablet count container for Calcium (Ca) 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 Collection Tools	De-ion pack, soil sample tugs, soil scoops, filter funnel and paper, sample container/dilution tubes, syringe, crush/stir rods, cuvette brush
Accessories	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

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



### Ordering Information

SK 200	Soil Fertility Kit
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### Kit Contents

Visual Test Equipment/Case	Sollester for soil pH, Sollester 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 Collection Tools	De-ion pack, soil sample bags, soil scoops, filter funnel and paper, sample container/dilution tubes, crush/stir rods, cuvette brush
Accessories	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 Soilster and reagents for 50 tests – direct 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.



## Containing Information

SK100	Soil pH and Lime Requirement Kit
Kit Contents	
Visual Testing Hand-Sure	Soilster for soil pH and lime requirement
Reagents	Complete reagent set for 50 soil pH and lime requirement tests
Sample Preparation	Mini De-ion bottle, soil scoop, crush/5-1 mm cuvette brush
Carrying Case	Hard case

# Soil Test Reagents

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

Key features include:

- Tablet format reagents – suitable for up to 10 years, easy to use and suitable for only field and laboratory use.
- Available as convenient Combination Packs including both extract and test reagents and also as individual reagent packs.
- Plantest Soil Test Reagents are compatible with current and pre-emptive Soil Test Kits.

Part Code	Description	SKR001 Soil Nitrogen Pack	SKR002 Soil Phosphate Pack (Visual)	SKR003 Soil Phosphate Pack (Nitrimeter)	SKR004 Soil Potassium Pack	SKR005 Soil Magnesium Pack	SKR006 Soil Aluminium Pack	SKR007 Soil Ammonia Pack	SKR008 Soil Copper Pack	SKR009 Soil Boron Pack	SKR010 Soil Manganese Pack
ST-2105	Extract N Powder	*									
ST-2116	Extract P		*								
ST-2127	Extract K Powder			*							
ST-2136	Extract Al				*						
ST-2146	Extract C					*					
SH-2200	Soil pH								*		
ST-2210	Lime Buffer										
ST-2227	Nitrate-N Powder	*									
ST-2240	Nitrate	*									
ST-2246	Phosphate P		*								
ST-2275	Acidifying (Soil)			*							
ST-2276	Acidifying (Soil)		*								
ST-2280	Potassium (Soil)				*						
ST-2287	Calcium (Soil)					*					
ST-2325	Ammonia (Soil)						*				
ST-2325	Aluminium (Soil)							*			
ST-2367	Chloride (Soil)										
ST-2370	Iron (wide range (Soil))										
ST-2395	Manganese (Soil)										*
ST-2410	Sulphate (Soil)										*
ST-2440	Magnesium (Soil)										*
ST-2455	Copper (Soil)										*

See [www.plantest.com](http://www.plantest.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.



### Aqua Pal App

- Available for iOS and Android, the Aqua Pal app provides seamless data management for the Suissat 10 Bluetooth instrument and manual data uploads from any other testing device
- Track data by sample to operate ID and create site specific reporting and control profiles for individual customers
- Text alerts and notifications when results are outside of defined limits

Regular calibration and service will keep your instrument operating at optimum performance. For enquires visit our website etc.

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

Simply complete the form on the left of our team will get in touch.



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



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Stay in touch @Palintest





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