





P1.67

After drilling a small hole the electrode can be pushed into the soil.



The reagent is added to the liquid soil extract, after which the color reaction is measured against the color chart.



## SOIL ANALYSIS

### 18.44 pH field analysis set

For the direct determination of the pH of soils (and liquids) a special electrode is used. Measurement of pH is based on semi conductor technology. The special, sturdy electrode, contains an Ion Sensitive Field Effect Transistor (ISFET) sensor, a silver/silver-chloride potassium-chloride reference system and a thermistor to allow for automatic temperature compensation.

The electrode has a measuring range of 0-14 pH with an accuracy of 0.03 pH. Measurement depth is 80 mm. The electrode is used in combination with a multimeter. The complete set includes the multimeter with electrode, a small pre-drill auger land with thumb spatula and calibration liquids.

### 18.02 Soil test kit for macronutrients & pH

### 18.04 Soil test kit for macronutrients, pH, humus, calcium & magnesium

### 18.06 Soil test kit for macronutrients, micronutrients & pH

The (agricultural) soil test kits offer simplified

methods for determination of available nutrients found in agricultural soils.

A series of rapid, accurate chemical tests use standardized reagents to produce color reactions measured against laminated color charts.

Colorimetric test methods are used for most test factors.

Some tests are based on turbidity measurements.

A single extraction procedure provides the liquid soil extract for all the nutrient tests with the exception of chloride, which is extracted with demineralized water.

Soil pH is determined colorimetrically, covering the range of pH 3.8 to 9.6. Complete reagent refill packages are available for each outfit.

All kits outfits are furnished in lightweight carrying cases with components securely mounted in removable foam trays.

Each kit includes complete instructions, a soil management handbook and a pad of soil analysis report forms.



pH field analysis set with ISFET electrode



Soil test kit for macronutrients, micronutrients and pH



Art.no.	Description	Qty. in set	Art.no.	Description	Qty. in set
<b>Soil analysis (P1.67)</b>				and time related data storage, with 100 nitrate test strips, calibration solution and accessories in bag	
	For analysis of soil we supply various instruments that can be used directly in the field.			<b>Accessories for Nitrachek (spare parts)</b>	
	<b>PH MEASUREMENT</b> To measure pH of soil we supply two sets: - pH indicator - pH meter with accessories (set)		18.40.01	Nitrate test strips, package of 100 pcs	
<b>08.10</b>	Hellige pH-indicator for soil, measuring range pH4 - pH9, (incl. 50 cc indicator fluid, for about 50 pH-tests)		18.40.02	Calibration solution for nitrachek, 100 ppm	
	<b>Accessories for pH-indicator (spare part):</b>			<b>DETERMINATION OF VARIOUS PARAMETERS</b>	
08.10.02	pH indicator fluid, pH 4.0 -9.0, bottle of 500 cc			For complete soil analysis in agricultural soils we supply three sets:	
<b>18.44</b>	Field analysis set to determine the pH of liquids and soil. Included in the set are: a multi- meter 18.21, a pre-drill auger, a pH electrode soil/ISFET PT1000, a thumb spatula, calibration liquids and a bag.		<b>18.02</b>	Soil test kit for macro nutrients and pH. Complete test kit for pH (100x) and N (nitrate), P and K tests (50x). In carrying case.	
**18.21	pH/mV/ECT meter, without electrodes, 0-14 pH, ±1100 mV, 0-100 mS/cm, 0-100 °C. IP65 housing. Menu-operated calibrations. Simultaneous measurement of pH and EC possible. Graphic display according GLP. In case with adjusting & maintenance liquids +batteries	1	<b>18.04</b>	Soil test kit for macro-nutrients and pH, humus, calcium and magnesium. Complete test kit for pH (100x) and N (nitrate), P, K, Ca, Mg and humus tests (50x). In carrying case.	
**18.21.23	Temperature probe Pt1000 with stainless steel shaft, measuring range -30 till +130 °C, dimensions 120x6 mm, banana plugs, cable length 1 m, splash proof (IP65)	1	<b>18.06</b>	Soil test kit for macro- and micro- nutrients and pH. Complete test kit for pH (100x) and N (nitrate + nitrite), P, K, Ca, Mg, NH <sub>3</sub> , Mn, Ae, NH <sub>4</sub> , sulphate, Fe, chloride and humus (50x). In carrying case.	
**18.44.01	pH electrode ISFET with BNC plug, measuring range pH 0-14. Accuracy 0.03 pH. Measuring depth 80 mm. Suitable for measurements in liquids and soil.	1		<b>We also offer complete reagent test kits for above sets: (spare parts)</b>	
**04.06.02	Auger for arable land, Ø 13 mm, operational length 25 cm, total length 32 cm, graduation 5 cm, totally zinc plated construction	1	18.02.02	Reagent refill kit for soil test kit, model 18.02	
**04.06.03	Thumb spatula	1	18.04.02	Reagent refill kit for soil test kit, model 18.04	
**18.44.91	Bag to store the auger for arable land and the thumb spatula	1	18.06.02	Reagent refill kit for soil test kit, model 18.06	
	<b>DETERMINATION OF NITRATE CONTENT</b>			<b>DETERMINATION OF FLOATING CONTAMINANTS (OIL) IN SOIL</b>	
	Here we supply the Nitrachek for water and watery extracts			Here we offer the oil detection pan	
<b>18.40</b>	Nitrachek reflectometer, measu- ring range 5-500 ppm with date		<b>20.02</b>	Oil detection pan, type Arcadis-Eijkelkamp, for semi- quantitative field determination of the content of mineral oil in soil samples. Incl. one anti- reflection plate	