

# SOIL NUTRIENT ANALYZER

## DESCRIPTION

The excess and blind fertilization can cause waste of fertilizer and water, but also it does harm to products growth, pollute to environment and declines quality of products. For this reason, the soil nutrient rapid tester is developed to detect nitrogen, phosphorus, potassium, pH value, and salinity value. The results of test can be stored and printed.

## TECHNICAL PARAMETERS

MODEL	ECO-6A
Stability	Absorbency of light drift < 0.003
Repeatability	Absorbency of light drift < 0.005
Linearity errors	Red light for $\text{CuSO}_4$ (copper sulfate) < 3.0% Blue light for $\text{K}_2\text{Cr}_2\text{O}_7$ (potassium dichromate) < 3.0%
Sensitivity	Red light $\geq 4.5 \times 10^{-5}$ Blue light $\geq 3.17 \times 10^{-3}$
Wavelength range	Red light: $620 \pm 5$ nm Blue light: $440 \pm 5$ nm
pH	Testing range: 1-14 Error: $\pm 0.1$
Display mode	Pantalla LCD
Size	320 x 280 x 110 mm
Gross weight	6.5 kg
Power supply	AC 110V, 60Hz



Ecoshel reserves all the rights to changes in product design, if there are any design change, we will not inform in advance.

## SALINITY SENSOR



Test range	0.01-1.00 %
Test accuracy	± 5%
Size	300 x 36 x 36 mm
Weight	400 g
Working current	20 mA

### STANDARD ACCESSORIES

1. Carrying case and keys
2. Glass cuvettes
3. Printer paper
4. Filter paper
5. Lab spatula
6. Syringe
7. Pasteur pipette
8. Glass test tube
9. Pocket scale
10. pH electrode
11. Soil salinity sensor
12. Pipette (50 to 250 µL)
13. Color scale
14. Reagents:
  - Buffer: 4.003 (red), 6.864 (green) y 9.182 (blue)
  - Nitrogen (N), phosphorus (P) and potassium (K) standards
  - Test reagents: N1, N2, P1, P2, K1 y K2
  - No. 1, No. 2, and No. 3 reagents
  - pH chemical reagent

### KEY FEATURES

1. Large capacity memory, built-in rapid printer.
2. Simple processing, quick test, and high accuracy.
3. Reagents easily preserved, long validity, and low cost for testing.
4. Built in the amount of nutrients needed for growth of 73 kinds of crops, can provide guidance for fertilizing amount according to needs.

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