

SOIL TESTING INSTRUMENT

Soil Nutrient Analyzer

Model: TPY series

● Characteristics

- ▲ Quickly test the N, P, K, organic matter, salinity, and pH, soil moisture in soil.
- ▲ With the function of time display, can automatically record and store testing time
- ▲ Store about 1000 groups' data. Data can be checked at any time.
- ▲ Be able to print the data like test date, sample No, items, sample content, variety etc.
- ▲ Be able to set crop variety, crop yield, fertilizer variety, and automatically count the fertilizing amount.
- ▲ Big LCD display, easy to operate.
- ▲ With playback function during the test
- ▲ Armor plate shell, firm, beautiful and durable.
- ▲ According to the local situation, to set the crop variety, productivity, fertilizer variety. And then calculate the fertilizing amount automatically.
- ▲ Built-in large capacity rechargeable battery.



● Technical parameters

1. Nutrient technical parameters:

Stability: Absorbency of light drift < 0.003

Repeatability: A (absorbency of light) < 0.005

Linearity errors: red light for Copper sulfate, and blue light for potassium bichromate < 3.0%

Sensitivity: Red light $\geq 4.5 \times 10^{-5}$, Blue light $\geq 3.17 \times 10^{-3}$

Wave length range: Red light $620 \pm 4 \text{ nm}$;

Blue light $440 \pm 4 \text{ nm}$

Anti-knocking performance: qualified (Attention: above technical parameters all exceed national standards)

2. PH technical parameters:

Testing range: 1-14 Error: ± 0.5

3. Salinity technical parameters:

Testing range: 0.01% -1.00% Relative error: ± 0.5

4. Soil moisture technical parameters:

Moisture unit: % (m^3/m^3)

Moisture content rate testing range: 0-100%

Accuracy: $\pm 2\%$ Measurement range: 0.01%~1.00%

Relative error: $\pm 5\%$

5. Power:

AC: 220V- 240V, 50Hz

DC: 18V, 5W (built-in)

● Model difference

Model	Function difference
TPY-IV	Test N, P, K, organic matter, with formula function; Fertilizer amount for the growth of 73 kinds of crops in memory. Without printing function.
TPY-6	Test N, P, K, PH, organic matter salt. Fertilizer amount for the growth of 73 kinds of crops in memory. With the printing function
TPY-6A	Based on all the functions of TYP-6. can offer a guidance for fertilize according to use's needs, with printing function
TPY-6PC	Based on all the function of TYP-6A, a software CD is provided as well. Be able to store, print, and send the data remotely by computer
TPY-7PC	Based on all the function of TYP-6PC, it also can test soil moisture