

# BlueTrack Technologies

Technology you can trust, Progress you can measure









## Product Overview

The **Micro Nutrients NPK Soil Probe** is a state-of-the-art, USB-connected soil analysis sensor that measures key soil health indicators instantly when connected to a mobile phone or tablet. Designed for **agriculture professionals, field technicians, and smart farming applications**, it supports real-time soil fertility and condition assessment through a **mobile app interface**.

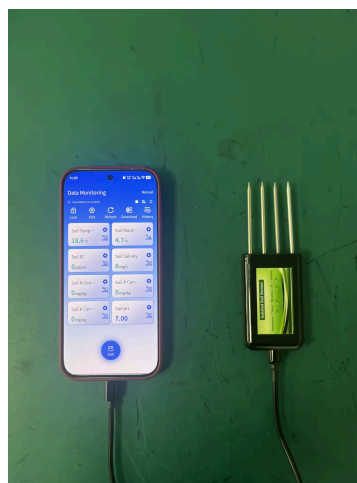
Its compact probe connects via **USB/Type-C** (and often Micro-USB) and draws power directly from the mobile device — no external battery is required.

---

## Key Features

-  **Direct Mobile Connectivity** via USB / Type-C
  -  **Mobile App Integration** for Android (and often Windows)
  -  Measures multiple soil parameters instantly
  -  Powered directly from the connected device — **no separate battery**
  -  Durable **waterproof design (IP67-rated)** for field use
  -  Exportable data and report logs
  -  Robust stainless-steel/alloy electrode probe
  -  Compact and portable for on-site analysis
- 

## Product Image



## Measured Parameters (Quick View)

Parameter	Typical Range
Nitrogen (N)	0 – 1999 mg/kg (approx)
Phosphorus (P)	0 – 1999 mg/kg (approx)
Potassium (K)	0 – 1999 mg/kg (approx)
pH	~3 – 9 pH
Electrical Conductivity (EC)	~0 – 20,000 $\mu$ S/cm
Temperature	-40°C to +80°C
Moisture	0 – 100%
Fertility / Soil Nutrient Index	Algorithm-based value

**⚠ Note:** NPK readings from portable sensors are **empirical estimates based on conductivity and other factors**, so they are best used for trend monitoring and comparative analysis rather than laboratory precision.

---

## Technical Specifications

Feature	Specification
Interface	USB / Type-C / Micro-USB
Compatibility	Android, HarmonyOS, Windows (varies)
Power Supply	USB-powered (no battery)
Data Output	Mobile App Dashboard & Export
Response Time	<5 seconds
Waterproof Rating	IP67 (epoxy sealed)
Electrode Material	Stainless steel / Alloy
Operating Temp	-20°C to +60°C
Mobile App	Dedicated Android/Windows App
Data Logging	Save, export CSV/PDF

(Typical values based on similar soil sensor product specs available online)

---

## Mobile & Reporting Features

-  Instant readings on smartphone via app
  -  Export test reports (CSV / PDF)
  -  Trend tracking & soil health history
  -  Share results via WhatsApp, Email
  -  App supports Android + Windows (some models)
- 

## Applications

-  Precision agriculture & crop planning
  -  Field soil surveys
  -  Nurseries & greenhouses
  -  Agricultural research & soil labs
  -  Irrigation management
  -  Soil fertility mapping
- 

## Advantages

- ✓ Real-time soil nutrient & condition measurement
  - ✓ Ultra-portable and simple to use
  - ✓ No reagents required
  - ✓ Works with mobile phone — no separate meter
  - ✓ Waterproof and rugged design for outdoor use
- 

## Optional Features / Add-ons

- Advanced soil fertility scoring
  - API integration with farm management systems
  - Cloud data storage
  - Android + iOS blanket compatibility (some variants)
  - Customized data export templates
-

## Support & Customization

- Custom Android app branding
  - Custom soil parameter calibrations
  - OEM probe design
  - Customized mobile report formatting
- 

## Company Details

### Bluetrack Technologies

 Contact: +91-9602578014 , 9462930103

 Email: [bluetrackinfo@gmail.com](mailto:bluetrackinfo@gmail.com)

 Website: [www.bluetracktechnologies.com](http://www.bluetracktechnologies.com)

 Location: India

---

*This document is a professional quick-view sheet based on typical specifications of USB soil NPK probes available in the market. Product features may vary by model.*