

Soil compaction tester

AST-JSD-WJ



Features

This device is a soil moisture monitoring system comprising a handheld data collector and a compaction sensor. It stands out in the field with its user-friendly operation, portability, and rapid, reliable detection capabilities. The handheld data collector can be factory-configured with GPS and GPRS data upload functions according to user requirements. Data from the device can also be transferred to a computer via a USB cable, enabling historical data export for analysis.

Technical parameters

Display: 2.4-inch color TFT LCD

Interfaces: Power connector: 5.5*2.5/2.1; USB port: Connects to computer;

Aviation connector: RS485

Storage: High-capacity FLASH memory; Stores up to 100,000 data points;

Auto-save interval: Adjustable from 1S to 180S

Positioning: GPS

GSM Upload: GPRS/2G/4G

Battery: 12V 2500mAh lithium battery; Operating time: 10 hours; Charging time: 3 hours

Export: Connect to host computer via USB cable to export Excel spreadsheets

Units: kg/cm²; LB; N/cm²; kPa

Soil Compaction Sensor:

Range: 0~100kg

Sensitivity: 2.0±0.1mV/V

Overall Accuracy: 0.1% F.S.

Repeatability: ±0.05% F.S.

Operating Temperature: -20 °C to +70 °C

Probe Material: Stainless Steel

Input Impedance: 735 ±35Ω

Output Impedance: 700±3Ω

Nonlinearity: ±0.05% F.S.

Sealing Rating: IP66

Excitation Voltage: 5–12 VDC

Cable: φ3×2000mm

Configuration List

USB cable	Gigabit Ethernet Cable (1M)
USB flash drive	32M Rotating Model (Includes 340 Driver and Data Acquisition Software)
Handle	120mm, Aluminum Alloy
Connecting rod	Φ12mm*200mm