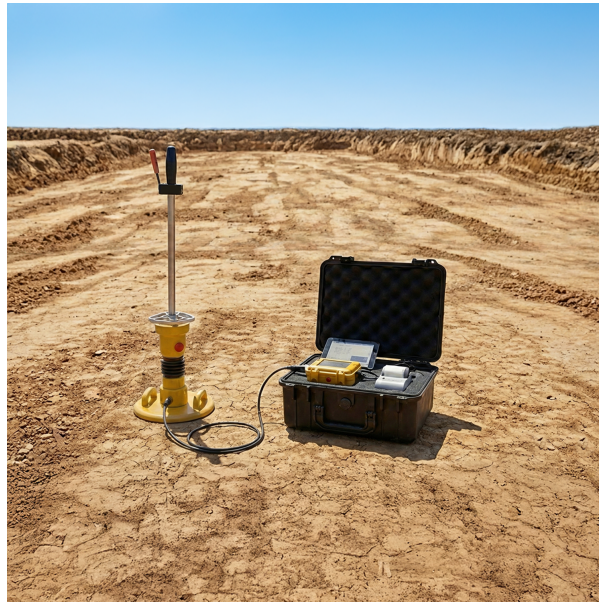


## LIGHTWEIGHT DEFLECTOMETER (LWD, ALFA)

Code : T343



- The ALFA Lightweight Deflectometer (LWD) is a portable, non-destructive field-testing system used to rapidly assess bearing capacity and compaction quality of subgrade, granular layers, and unbound pavement bases by measuring surface deflection under an impulse load and calculating dynamic deformation modulus (Evd).
- The system is designed for fast on-site quality control and documentation, featuring tablet-based operation, high-capacity internal data storage, and modern communication options for streamlined reporting, data export, and project traceability.
- Digital connectivity includes Bluetooth + Wi-Fi, USB-C, a thermal printer interface, GPS, and direct integration to ALFA Cloud for centralized storage, reporting, and fleet/project management workflows.

### **STANDARDS**

ASTM E2583

## **TECHNICAL SPECIFICATIONS**

- Settlement measuring range: 0.1 to 2.0 mm ( $\pm 0.02$  mm)
- Measuring range (Evd):  $< 225$  MN/m<sup>2</sup>
- Operating temperature range: 0 to 40 °C
- Robust, splash-water proof housing
- Connection cable: high-quality CNLINKO connectors
- Connectivity: Bluetooth + Wi-Fi
- Interface: USB
- Thermal printer interface: available
- ALFA Cloud connection: supported
- GPS: included
- Internal storage capacity (measurement series): 2000 record
- Power supply: USB powered
- Batteries: 4 × R6 (rechargeable or one-time use)
- Total weight: 15.0 kg
- Drop weight: 10.0 kg (extendable)
- Max. impact force: 7.07 kN
- Duration of impact:  $17.0 \pm 1.5$  ms
- Material: zinc coated / hard-chrome plated steel
- Spring element: disk springs / spring / rubber
- Plate diameter: 300 mm
- Plate thickness: 20.0 mm
- Total weight: 15.0 kg
- Material: thermal coated steel

## **EQUIPPED WITH**

- USB communication/power interface
- Thermal printer interface

**ORDERING INFORMATION**

Item Name	Item Code
LIGHT WEIGHT DEFLECTOMETER (ALFA)	T343X00AB