



## UNIVERSE LIGHT WEIGHT DEFLECTOMETER AZA0930

The AZA0930 Light Weight Deflectometer (LWD) from Azalab is a compact, portable, and non-destructive field testing instrument designed for rapid evaluation of compaction quality and bearing capacity of unbound granular layers, subgrades, and backfills. Engineered for modern construction environments, the AZA0930 delivers instant, reliable in-situ results, eliminating the need for time-intensive laboratory testing or large-scale plate load setups. It enables engineers and site personnel to make real-time acceptance and corrective decisions, improving construction efficiency and quality assurance.

### Key Features

- Portable, single-operator system
- Standardized drop weight and height for consistent energy input
- High-resolution geophone for accurate deflection measurement
- Integrated load cell for precise force measurement
- Digital control unit with real-time result display
- Instant computation of  $E_{vd}$  (MPa)
- Internal memory for multiple test records
- USB / Bluetooth connectivity for data transfer and reporting
- Rechargeable battery for extended field use
- Rugged design for harsh site conditions





**UNIVERSE**

**TECHNICAL SPECIFICATION**

<b>Parameter</b>	<b>Description</b>
Model	AZA0930
Product Type	Light Weight Deflectometer (LWD / LFWD)
Test Method	Dynamic Plate Load / Impulse Deflection
Drop Weight	10 kg
Drop Height	500 mm
Plate Diameter	300 mm
Load Application	Spring-assisted impulse
Load Measurement	Integrated load cell
Deflection Sensor	High-precision geophone
Resolution	~0.01 mm
Output	Dynamic Deformation Modulus (Evd, MPa)
Display	Backlit digital LCD



**UNIVERSE**

**TECHNICAL SPECIFICATION**

<b>Parameter</b>	<b>Description</b>
Data Storage	Internal memory
Connectivity	USB / Bluetooth
Power Supply	Rechargeable Li-ion battery
Operating Temperature	-10°C to +50°C
Total Weight	Approx. 15–20 kg
Construction	Rugged, field-grade
Origin	Made in India
Standards	ASTM E2835, EN 13840

**Standards Compliance**

The AZA0930 is designed in accordance with and correlates to:

- ASTM E2835 – Portable Impulse Plate Load Test
- EN 13840 / DIN 18134 – Light Falling Weight Deflectometer
- IRC Guidelines – Road compaction quality control correlations