



UNIVERSE

POCKET PENETROMETER AZA0869

The AZA0869 Compact Pocket Penetrometer is a portable field instrument designed for rapid estimation of Unconfined Compressive Strength (UCS) and shear strength of cohesive soils.

Fully compliant with ASTM D1558 and ASTM D2573, it enables engineers and field personnel to perform quick, reliable soil strength assessments without the need for laboratory testing.

The instrument is widely used in geotechnical investigations, foundation evaluation, and construction site inspections, providing immediate results for clays and silts.

Applications

- Estimation of UCS and shear strength of cohesive soils
- Field classification of soil consistency
- Trench stability and safety assessment
- Shallow foundation evaluation
- Preliminary geotechnical investigations
- Educational and field research activities

Standards Compliance

- ASTM D1558 – Pocket Penetrometer Test
- ASTM D2573 – Field Classification of Soils





UNIVERSE

Key Features

- Direct Strength Measurement

Instant reading of penetration resistance in kg/cm^2

- Maximum Load Indicator

Sliding ring captures peak applied load

- Compact & Lightweight

Easy to carry and operate in field conditions

- Durable Construction

Corrosion-resistant spring and hardened steel plunger

- Field-Ready Design

Suitable for rugged site environments

Key Benefits

- Fast and reliable field strength estimation
- Enhances on-site decision-making
- Reduces need for immediate laboratory testing
- Durable and maintenance-friendly design
- Trusted Azalab quality and performance

Limitations

- Suitable for cohesive soils (clays and silts) only
- Not recommended for granular or gravelly soils
- Provides approximate values (for preliminary assessment)



UNIVERSE

TECHNICAL SPECIFICATION

Feature	Specification
Model	AZA0869
Standard Compliance	ASTM D1558, ASTM D2573
Measurement Range	0 – 4.5 kg/cm ² (typical)
Barrel Diameter	20 mm
Barrel Length	150 mm
Scale Type	Engraved, direct reading
Spring	Heat-treated, corrosion-resistant
Plunger Tip	Polished, ground steel
Max Load Indicator	Sliding ring
Weight	< 0.5 kg
Carrying Case	Protective case included