DE-MOUNTABLE MECHANICAL STRAIN GAUGE AZA1170

The AZA-LAB De-Mountable Mechanical Strain Gauge (AZA1170) is a precision instrument designed for the accurate measurement of strain and deformation in concrete, rock, steel, and composite materials.

Engineered in compliance with ASTM D5335, this reusable mechanical gauge provides high-resolution, repeatable measurements without the need for adhesives, wiring, or power supply. It operates using a micrometer-style dial indicator, delivering reliable readings with ±0.002 mm accuracy.The AZA1170 is ideal for laboratory testing and field applications, including structural monitoring, geotechnical investigations, and material research. Its adjustable gauge length and portable design make it suitable for multi-point measurements across different specimens, enhancing efficiency and flexibility in testing workflows.

Key Applications

- Concrete and rock deformation testing
- Structural strain monitoring (bridges, dams, tunnels)
- Geotechnical and underground instrumentation
- Steel tensile and compression testing
- Uniaxial and triaxial test setups

Compliance & Standards

ASTM D5335 – Standard Test Method for Determination of Deformation Using Mechanical Strain Gauges

TECHNICAL SPECIFICATIONS

Parameter	Specification
Model No.	AZA1170
Product Type	De-Mountable Mechanical Strain Gauge
Standard Compliance	ASTM D5335
Gauge Length Range	50 mm – 200 mm (adjustable)
Measurement Accuracy	±0.002 mm
Dial Indicator Type	Micrometer-style mechanical
Frame Material	Aluminum alloy / Stainless steel
Mounting Method	Clamp-on via gauge studs
Weight	Approx. < 1.5 kg
Suitable Materials	Concrete, rock, steel, composites
Accessories Included	Calibration bar, mounting tools, carry case
Application	Strain and deformation measurement