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DIGITAL LOAD INDICATOR AZA1139

The Azalab Digital Load Indicator (AZA1139) is a high-precision electronic unit designed for accurate real-time load measurement in compression, tensile, and flexural testing applications. Utilizing advanced 24-bit A/D conversion technology, the AZA1139 converts analog signals from strain-gauge load cells or pressure transducers into stable, high-resolution digital readings. It is ideal for integration with Compression Testing Machines, Universal Testing Machines (UTMs), hydraulic presses, and other force-measurement systems.



Key Features

High-Resolution Digital Display

- Real-time load indication with excellent stability

Wide Compatibility

- Supports strain gauge load cells (350 Ω / 700 Ω) and pressure sensors

Peak Load Capture

- Peak hold function for maximum load recording

Multi-Unit Display

- Selectable units: kN, N, kgf, lbf

Advanced Connectivity

- RS232, USB, and optional Ethernet interface

Flexible Mounting Options

- Panel-mount, tabletop, or portable configurations

High Accuracy

- Resolution up to 1/100,000 with $\pm 0.5\%$ FS accuracy



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TECHNICAL SPECIFICATIONS

Feature	Specification
Model No.	AZA1139
Input Compatibility	Strain Gauge Load Cells (350Ω / 700Ω)
Load Range	0 – 2000 kN (based on load cell)
Display Type	LED / LCD Digital Display
Resolution	Up to 1/100,000
Accuracy	±0.5% Full Scale
Peak Hold Function	Yes
Data Output	RS232 / USB / Ethernet (optional)
Units	kN, N, kgf, lbf
Mounting Options	Panel / Tabletop / Portable
Power Supply	230V AC / 12V DC (model dependent)