



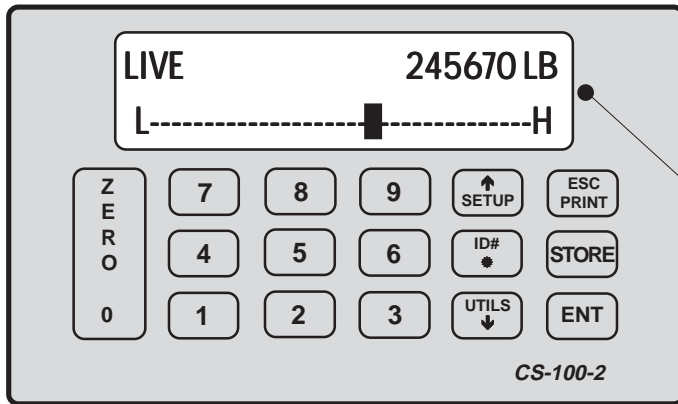
CS-100-2 & CS-100-2A

Load, Stress and Load Rate Indicator for tension and compression testing to ASTM requirements!



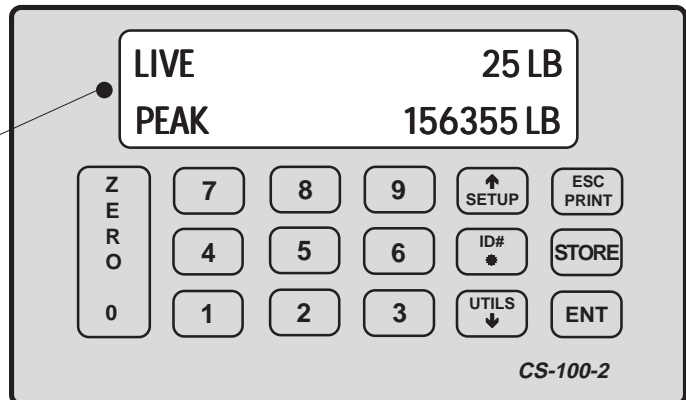
The **CS-100-2** and **CS-100-2A** are low cost indicators designed to replace dial gauges on materials testing machines. Features include an Auto-Test-Reset mode for hands free operation, bar graph load rate display, permanent storage of test data and easy transfer of results into data base programs. It's accuracy, which exceeds ASTM E4, ease-of-use and ruggedness results in a system of unrivaled price/performance. **CS-100-2** and **CS-100-2A** are ideal for:

- Beam Bend Testing
- Concrete Cylinder Testing
- Cement Cube Testing
- Force Calibration
- Remote On-Site Testing
- Quality Control
- Product Evaluation
- Proof Testing



Display while specimen under test: Live Load and Load Rate Pointer shown between High and Low Rate Limits.

Display after specimen break detected: Live Load and Peak Load. CS-100-2A systems will display Peak Stress.



CS-100-2 features

- Display Live Load and Peak Load numerically.
- Indicate Load Rate with a bar graph. The rate pointer moves between its limits. Decreasing the rate moves the pointer left. Increasing the rate moves the pointer right.
- Adjust the upper and lower rate limits depending on the testing requirements. Ex: ASTM C39 20-50 psi/sec.
- Select between engineering units of Lb, N, KN and Kg.
- Define and detect the end of test with the Sample Break Detector.
- Auto-Test-Reset which automatically enables the indicator for the start of the next test without requiring operator interaction.
- Store up to 400 test results to permanent memory. Results include Date, Time, Specimen ID#, Peak Load plus a statistical summary of Peak Load.
- Activate Auto-Store to automatically store the results of each test.
- Activate Auto-Transmit to automatically transmit the results of each test out the serial communications port.
- Transmit results to a printer or remote computer through the serial communications port.
- Store up to four load cell calibrations for multiple load cell systems. The load calibration algorithm allows up to 5 calibration points per cell with piecewise linear fit between points. Accuracy exceeds ASTM E4 Standards and in general is greater than 0.5% from 1% of full scale to full scale.
- Digital output activates at sample break or machine overload.

Technical Specifications

Load Input Compatibility

Sensitivity:	User selectable from 1mv/v to +/- 5Vdc
Excitation:	5 Vdc
Accuracy:	CS-100-2 plus Transducer-Better than 0.5% from 1% of full scale to full scale (Exceeds ASTM E4).
Resolution:	1 part in 100,000 (approx.)
Sampling Rate:	1000 Hz

Digital I/O

Output Compatibility: TTL

Display

2 line x 16 character alphanumeric LCD
Character Height: 0.40 inches

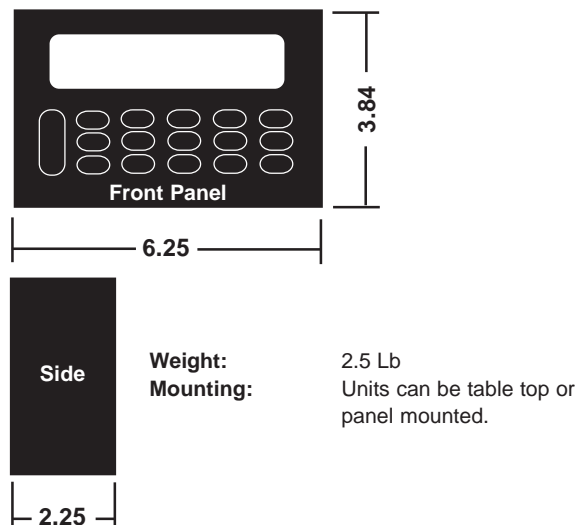
Power Requirements

Voltage:	7-15 Vdc, unregulated
Current:	450 ma with LED Backlight 100 ma no LED Backlight

Additional features for CS-100-2A

- Indicate Stress and Load Rate.
- Select between engineering stress units of psi, MPa, KPa, ksc.
- Define specimen geometries as cylinder, cube, beam center point loading, beam-3rd point loading, round and general area.
- Activate/De-Activate Cylinder ASTM C39 correction factor.
- Define cylinder break type according to ASTM C39.
- Perform beam tests according to ASTM C78 and C293.
- Store Specimen Type, Area, Peak Stress/Modulus of Rupture plus a statistical summary of Peak Stress. This information is in addition to the results stored in CS-100-2A.

Dimensions (inches)



Ordering Information

Model No:

CS-100-2
CS-100-2A

Accessories:

WinCom Windows Serial Communications Software
S-Trak Specimen Tracking and Database
Barcode Reader Input
Shunt Calibration
RS-232 Printer
Pressure Transducers: 1,000-2,500-5,000-10,000 psi