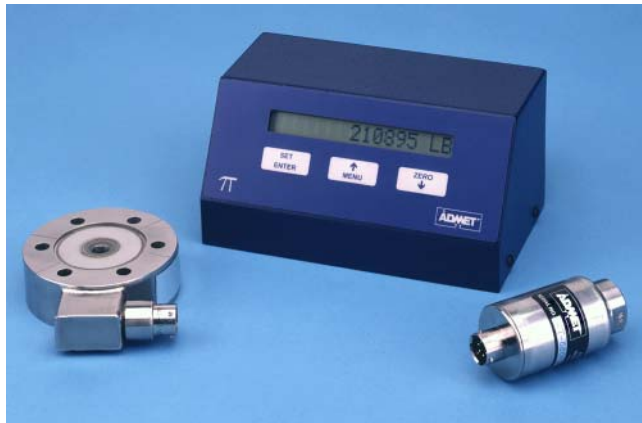


# CS-100-1B Peak Load Indicator



## CS-100-1B Peak Load Indicator features

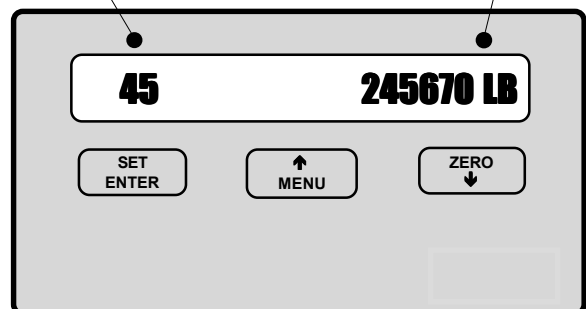
- Display live load and peak load numerically.
- Optional load rate indication in force units per second.
- Load and load rate can be viewed simultaneously.
- Select engineering units of Lb, N, KN, and Kg.
- Software programmable calibration with password protection (No potentiometers to adjust.).
- Calibration is stored in permanent nonvolatile memory.
- Accuracy exceeds ASTM E4.
- Resolution greater than 1 part in 8,000,000 (23-bits).
- End of test sample break detector set for 50% of peak load.
- Start test threshold set in firmware.
- Auto-Test-Reset automatically enables the indicator for the start of the next test without requiring operator interaction.
- 0.38" high characters and a 60 degree sloped face for easy viewing.
- Rugged keypad overlay with tactile keys and non-glare non-scratch screen.
- Compatible with full bridge strain gage load cells and pressure transducers. LVDT type transducers require optional LVDT conditioning module.

The CS-100-1B **Peak Load Indicator** is a simple, low cost indicator that measures peak load. Load rate indication is available as an option for those applications that require accurate indication of load rate. The CS-100-1B **Peak Load Indicator** is ideal for tension, compression and flexure testing on materials testing machines. It is rugged, easy-to-use and the CS-100-1B accuracy exceeds ASTM E4 requirements. Typical applications include:

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- Measuring pull-out or press-in forces
- Concrete cylinder testing
- Cement cube testing
- Beam flexure testing
- Remote on-site testing
- Proof load testing

*Display live load while the specimen is under test and peak load at the end of the test.*

*Display load rate in force units per second (optional).*



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**CALIBRATION SERVICES, INC.**

## Technical Specifications

### Load Input Compatibility

**Sensitivity:** +/- 4.2 mv/V standard  
other input ranges optional

**Excitation:** 10 Vdc standard, 5 Vdc optional

**Accuracy:** CS-100-1B *Indicator* plus transducer-better than 0.5% from 1% of full scale to full scale (exceeds ASTM E4).

**Resolution:** 1 part in 8,000,000 (23-bits)

**CMRR:** 125db

**Connection:** DB15 Female

### Display

**Type:** Transflective Liquid Crystal Display  
1 line x 16 characters

**Character Height:** 3/8 inches

**No of Digits for Load:** 8

**No of Digits for Load Rate:** 5 (optional)

### Keypad

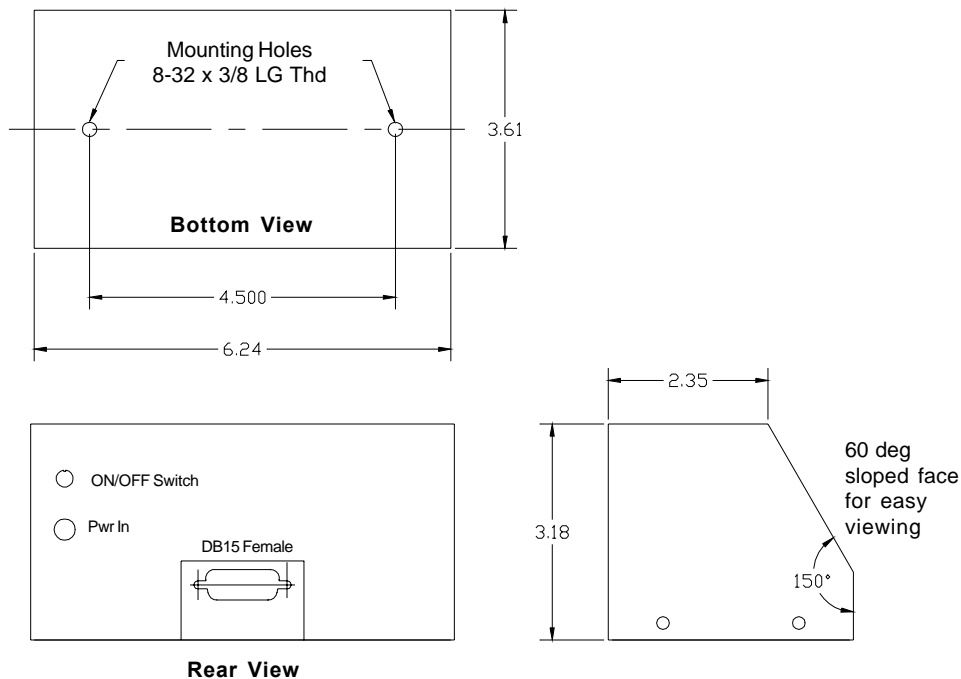
3-keys each with tactile dome  
Key activation life greater than 2,000,000 cycles

### Power Requirements

**Voltage:** 12-15 Vdc unregulated-supplied via modular 120 VAC 60Hz wall transformer (standard).  
Optional battery pack available.

**Current:** 120ma

## Dimensions (inches)



## Ordering Information

### Model No

CS-100-1B Peak Load Indicator  
CS-100-1BR Peak Load Indicator with Rate display  
(Includes modular 120 VAC 60Hz wall transformer)

### Accessories

**Pressure Transducers:** 1,000 2,500 5,000 10,000 psi  
includes cable pre-wired for the CS-100-1B *Indicator*.

**Load Cells** of various capacities

**Battery Pack** for remote operation

**LVDT Conditioning Module**