

pi Peak Load Indicator



pi Peak Load Indicator features

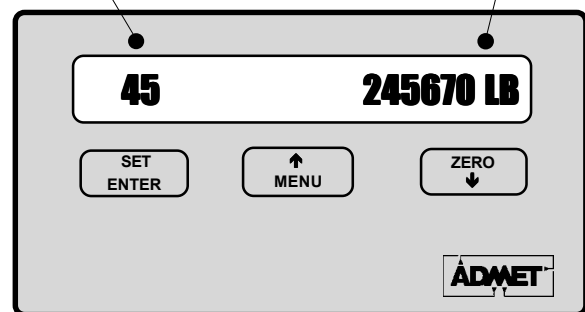
- Display live load and peak load numerically.
- Optional load rate indication in force units per second.
- Load and load rate can be viewed simultaneously.
- Select engineering units of Lb, N, KN, and Kg.
- Software programmable calibration with password protection (No potentiometers to adjust.).
- 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 20% 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 **pi 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 **pi Peak Load Indicator** is ideal for tension, compression and flexure testing on materials testing machines. It is rugged, easy-to-use and the **pi's** accuracy exceeds ASTM E4 requirements. Typical applications include:

- Measuring peak load in tension or compression
- 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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'Measure the Difference'

Technical Specifications

Load Input Compatibility

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

Excitation: 10 Vdc standard, 5 Vdc optional

Accuracy: *pi 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

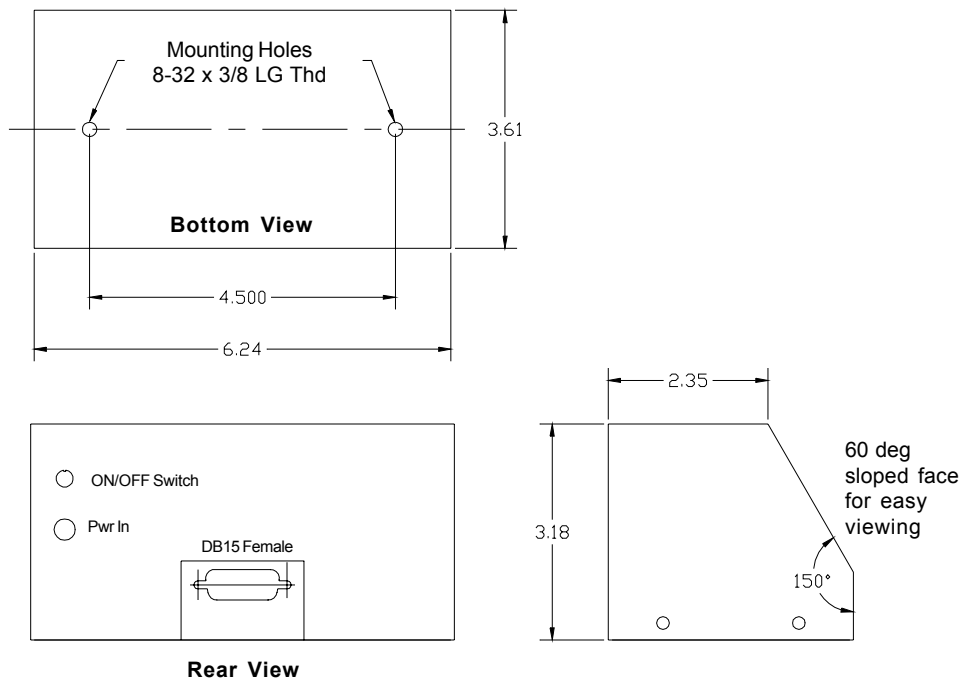
3-keys each with tactile dome
Key activation life greater than 2,000,000 cycles

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

PI: pi Peak Load Indicator
PI-R: pi 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 *pi Indicator*.

Load Cells of various capacities

Battery Pack for remote operation

LVDT Conditioning Module