

Our customer carries out stress tests on beams to determine the peak load pressure and the linear displacement reading at the point of failure.

Textmate installed a Tiger 320 Series DI-50E meter configured to display and hold the peak readings, load pressure on Channel 1, and linear displacement on Channel 2.

The meter is configured to log data at a constant rate and download directly to a computer to calculate the rate of change.



APPLICATION FUNCTIONS

PEAK HOLD

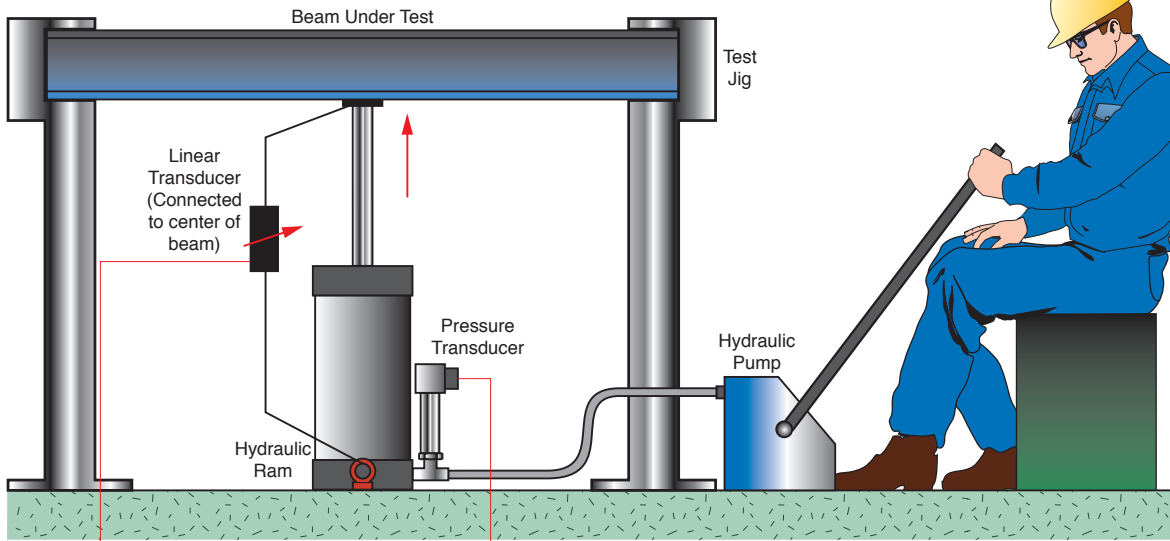
SERIAL OUTPUTS

1000

INPUTS

PROCESS
4 / 20 mA
1 / 5 V

LOAD-CELL
PRESSURE



OPERATIONAL DISPLAY
Displaying load pressure

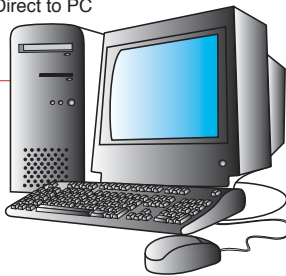


Press the UP button to display Channel 1 (peak load pressure) reading



Press the DOWN button to display Channel 2 (linear displacement) reading

Serial Output
Direct to PC



APPLICATION VARIATIONS

- Date, time, load peak pressure, and linear displacement downloaded directly to a printer, at a timed rate or from the front panel.
- 16-bit analog output to a chart recorder (0-10 VDC or 0-20 mA).
- Relay setpoints can be programmed for PASS/FAIL applications, preventing beam destruction.

Suggested Ordering Code Options for This Application

Basic Order Codes	Comments
DI-50E-DR-PS1-ISS9-S2	Up button to see PEAK, Buttom button so see Linear Displacement
DI-50E-DR-PS1-ISS9-S2-AIC-OR11	4-20mA output for a chart recorder, one relay for PASS/FAIL app.