

TRANSDUCER READOUT



The Model ALD-TI is a low-cost strain gage and transducer indicator for general purpose applications. The Model ALD-TI is specifically designed for strain gage and transducer work and provides the necessary power supply, system controls and calibration suitable for most research and industrial applications.

This instrument is a self-contained signal conditioner-indicator-excitation supply.

The ALD-TI may be used with most types of strain gages and strain gage transducers. It is available as a portable battery-powered unit with output jack for connections to a recorder or an oscilloscope.

SPECIFICATIONS OF STANDARD UNIT:

1. Single Channel
2. Resolution:
 - a. 1 part in 20,000 at Full Scale (4-½ digit)
 - b. 1 part in 2,000 at Full Scale (3-½ digit)
 - c. 1 part in 100 at Full Scale (Analog meter – one direction only)
3. Accuracy: ± 1 Digit or Reading
4. Span Adjust: $\pm 10\%$
5. Bridge Balance Control is provided by a precision potentiometer. A wide variety of gages may be used.
6. Bridge Excitation: 5 VDC or 10 VDC. Specify.
7. Power Supply: 120 VAC, 60Hz
8. Temperature Range: 20°F to 95°F (Nominal)

OPTIONS:

1. Power Supply: 220 VAC, 50/60 Hz
2. Power Supply Battery Pack
3. 2 to 8 channels
4. Display Hold Feature: to allow sampling of fast changing loads (switch "on" to hold, "off" to sample)
5. Automatic Sample & Hold: at 6 second intervals (other timing intervals available upon request)
6. Shunt Calibration Circuit: 200K Ω
7. High and/or Low Controller Module: to initiate control action, by closure or opening of contacts, when high or low is reached (DPDT relay, 3A contacts.). High and low set point is fully adjustable with meter display showing actuation point.
8. Display in Engineering Units: lb, tons, psi, Kg, Kg/cm², etc.
9. 120 Ω Completion Network: ½ BRG, ¼ BRG
10. 350 Ω Completion Network: ½ BRG, ¼ BRG
11. Output Jack: for scope or recorder
12. Peak Hold
13. Sum of Channel Output