

### ULTRA LINE\*

**Provides up to 40:1  
Tension Range when  
used with one or two  
Ultra Line Load Cell  
Solutions.**

- Provides up to 40:1 tension range (Ex: accurately measures from 2.5 lbs to 100 lbs of tension when used with a 100 lb rated Ultra Line Load Cell).
- Rejects electrical noise from AC motors, servo motors, relay coils, as well as other electrical disturbances.
- Operates over a wide tension range.
- Specially designed to measure lower (light) tensions.
- Easily maintains proper tension measurement regardless of changes in ambient temperature.
- Easy to set up and calibrate.
- Interfaces with a wide variety of controls for measuring and monitoring web tension.



#### Performance Benefits

Cleveland Motion Controls new Cleveland-Kidder® Ultra Line Load Cell Amplifiers operate over a wider tension range, accepting output from full bridge Ultra Line Load Cells (that provide a higher output signal for better signal resolution). They have the ability to measure lower (light) tensions, eliminating drift that can distort low-tension measurements, resulting in a substantial and stable output signal. They reject electrical noise with a four-wire differential technology, providing a common mode of rejection to electrical noise and disturbances—resulting in clean and accurate output signals devoid of distortion. Plus, with an advanced temperature compensation network that cancels out temperature influences, Ultra Line Load Cell Amplifiers produce a minimum amount of deviation of signal output, regardless of ambient temperature changes.

When used in conjunction with Ultra Line Load Cells, Ultra Line Load Cell Amplifiers provide better performance than competitive load cell amplifiers by increasing the operating tension range from 8:1 to 40:1. They also provide more accurate measurement by eliminating electrical disturbances caused by AC drives, servos, and other modern high frequency devices.

#### Design Features

The Ultra Line Load Cell Amplifier is designed to interface with a wide variety of controls for monitoring and measuring web tension. Two versions are available—the basic amplifier or an electrically-isolated amplifier. Analog outputs on both include 0 to 4V- 10 VDC and 4-20 mA for use as a tension feedback signal or tension indicator (for use with PCs, PLCs or other controls), 0-2 VDC with damping (for use with digital indicators) and a 0-1 mA signal with damping (for use with analog meters). It has a low power requirement, only 24 VDC power at 160 milli-amps. The analog outputs of the isolated module are galvanically isolated from the transducer load cell and power supply. This is a useful feature in systems where the tension signal is used for feedback, where ground loop or noise elimination is important.

The Ultra Line Load Cell Amplifier is low-profile, only 1.77 in. wide (45 mm), 4.54 in. deep (115 mm), and 2.95 in. high (75 mm). It weighs only 6.0 ounces (170 grams). The Ultra Line Amplifier is designed so that calibration adjustments and terminal strips are conveniently accessible from the front. Pluggable connections are removable for easy wiring. Essential specifications and a wiring schematic are located on the side, eliminating the need for a manual.



# Cleveland Kidder Tension Controller Manual

**S Marginson**



## **Cleveland Kidder Tension Controller Manual:**

Technical Association of the Pulp and Paper Industry ,1975      Mechanical Engineering ,1978 History of the American society of mechanical engineers Preliminary report of the committee on Society history issued from time to time beginning with v 30 Feb 1908      *Machine Design* ,2001      *Power Transmission Design* ,1984      **Thomas Grocery Register** ,1978  
*Sheet Metal Industries* ,1982      **Package Engineering** ,1978-07      **Packaging** ,1984      **MacRae's Blue Book** ,1989      **Directory of Corporate Affiliations** ,2001 Described as Who owns whom the family tree of every major corporation in America the directory is indexed by name parent and subsidiary geographic location Standard Industrial Classification SIC Code and corporate responsibility      **Industrial Equipment News** ,1970      The Breeder's Gazette ,1921      **Moody's Industrial Manual** ,1954      *Moody's Manual of Investments* John Sherman Porter,1945 American government securities 1928 53 in 5 annual vols v 1 Railroad securities 1952 53 Transportation v 2 Industrial securities v 3 Public utility securities v 4 Government securities 1928 54 v 5 Banks insurance companies investment trusts real estate finance and credit companies 1928 54      **Electrical World** ,1914      *Pulp & Paper* ,1979      **The Northwestern Miller** ,1928      **Moody's Manual of Investments: American and Foreign** ,1945      **American Export Register** ,1991  
Thomas Register of American Manufacturers ,2002 This basic source for identification of U S manufacturers is arranged by product in a large multi volume set Includes Products services Company profiles and Catalog file

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