



## OPERATING INSTRUCTIONS FOR MECHANICAL STRAP TENSION METERS

All instruments are shipped calibrated, certified, and ready for use. Slide the meter's center pin under the stationary strap, so the strapping goes under the outer pins and over the center pin. Readings should be made on the first revolution only. Arrests are provided at 1-1/2 revolutions to avoid overstraining.

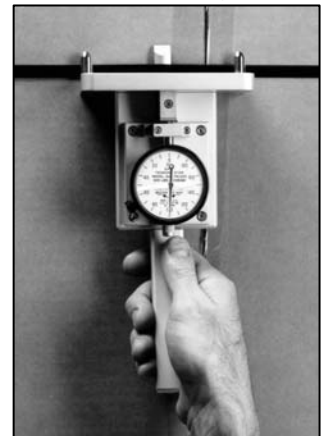
Readings may vary when used on materials of different thickness, width or stiffness. To change calibration for different materials, follow CALIBRATION PROCEDURE below.

### CALIBRATION PROCEDURE

Suspend a sample of your strapping from overhead. Secure a weight to this strapping that is one-half the full range of your instrument.

Loosen bezel lock-screw. Turn dial/bezel to zero setting. Retighten lock-screw.

Insert the tension meter onto your loaded strap. The pointer should straddle the halfway point on the dial. If it is not at the halfway mark, note the setting. Remove the meter from the material. If the reading is less than half, the calibrating ramp will have to be rotated a **slight amount** in the counterclockwise direction. If more than half, rotate in the clockwise direction.



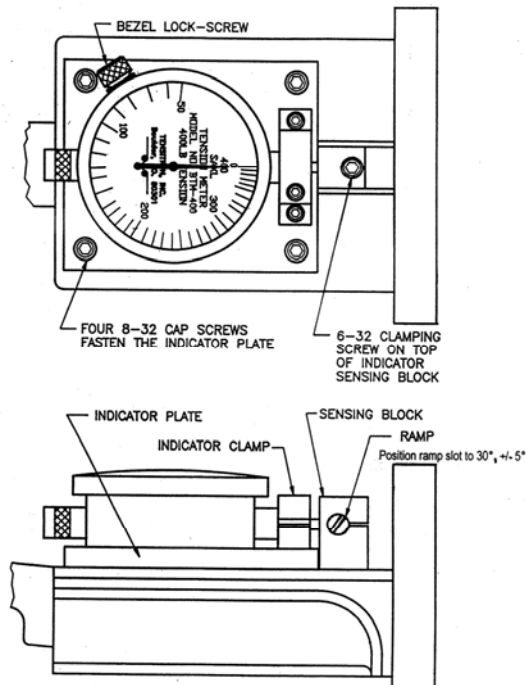
To rotate calibrating ramp: Slightly loosen the 6-32 clamping screw on top of the indicator sensing block. (The indicator sensing block is between the face plate and the indicator clamp.) Note how much the pointer moves as you rotate the calibrating ramp. It should move slightly - about one increment at a time. Retighten clamping screw.

Reset dial/bezel to zero position. Insert the meter onto the loaded material again. Recheck the halfway reading. If necessary, readjust as outlined above.

To reposition the pointer after calibrating ramp is reset, rotate the dial/bezel to top center of the indicator. Then loosen the four 8-32 cap screws holding down the indicator plate. Move the plate and indicator until pointer straddles '0' on the dial.

Retighten all four cap screws. Recheck readings.

**ACCURACY CHECK ONLY** - Check at 1/4, 1/2, 3/4, and full weight of instrument range. If adjustments are necessary, meter must be returned to factory. Field adjustments cannot be made.



## CARE AND MAINTENANCE

Do not apply pressure to indicator sensing block.

Keep clean and free of dust.

**DO NOT OIL.**

**If service is required, return to:**

**Tensitron, Inc.  
733 South Bowen Street  
Longmont, CO 80501**

**Tel: (303) 702-1980  
Fax: (303) 702-1982  
E-Mail: [repairs@tensitron.com](mailto:repairs@tensitron.com)**