



OPERATING INSTRUCTIONS FOR CLIP-ON MODEL BTM- BAND TENSION METERS

ALL METERS ARE SHIPPED CALIBRATED, CERTIFIED, AND READY FOR USE.

Readings should be made on the first revolution only. Arrests are provided at 1-1/2 revolutions to avoid overstraining.



To change calibration for materials of different thickness or stiffness, use the following **CALIBRATION PROCEDURE:**

Suspend a length of your new calibration material from overhead. Hang a weight one half of your instrument's full range on this material.

Hold the BTM-tension meter so that one reference roller is above the other. Loosen bezel lock-screw. Turn dial/bezel to zero setting. Retighten lock-screw.

Clip the tension meter onto the loaded material. Slide the meter up and down on the material, being sure to hold the handle completely down. The pointer should straddle the half-way mark on the dial. If it is not half-way, 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 counter-clockwise 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 back plate and the indicator clamp.) Note how much the pointer moves as you rotate the calibrating ramp. It should move slightly - about 10 lb at a time. Retighten clamping screw.

Reset dial/bezel to zero setting. Reclip the meter onto the loaded material. Recheck the 100 lb 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 fastening the indicator plate. Move plate and indicator until pointer straddles 0/max reading on the dial.

Retighten all four cap screws. Recheck readings.

ACCURACY CHECK ONLY:

Check at 1/4, 1/2, 3/4, and 100% of your meter range. If adjustments are necessary, the meter must be returned to factory. Field adjustments cannot be made.

TO COMPENSATE FOR VERTICAL OR HORIZONTAL POSITION:

Hold instrument in position to be used. Loosen bezel lock-screw. Turn dial to zero setting. Retighten lock-screw. **AVOID PUTTING THUMB ON THE INDICATOR SENSING BLOCK.**

CARE AND MAINTENANCE:

Do not apply pressure to indicator sensing block. Keep clean and free of dust.

If handle becomes stiff, apply a slight drop of oil or grease on point of contact. If necessary, oil or grease can be applied to the contact rollers and hinge pins.

DO NOT OIL DIAL INDICATOR.

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