

TENSITRON®

A KTC Instruments Company



BTX-1 SERIES

DIGITAL BAND TENSION METERS

IMPROVE PROCESS CONTROL AND PRODUCTION QUALITY

Measure the tension of narrow, flat materials, moving or stationary.



FAST & VERSATILE

Quickly and easily test band tension

- Quick, easy, one-handed operation
- Versatile measurement for:
 - Nylon straps
 - Seat belts
 - Narrow poly web
 - Flat drive belts
 - Small V belts (up to 1/8" stationary)



ACCURATE

Improve safety and performance

- Custom-calibrated for your application
- Tension ranges from 0.51 to 500 lb.
- Selectable units (lb, kg, or daN)
- Analog or serial output (optional)



DEPENDABLE

Save time and costs with durable construction

- Long-lasting durable construction
- Secure-grip handle
- Continuous or single-point data storage
- Includes carrying case and NIST-traceable calibration certificate



CONVENIENT

User-friendly and easy to transport

- Lightweight, portable
- Data averaging function evens out readings in fast-moving applications
- Easy-to-read, digital display
- Color-bar graphic provides quick visual of tension



SPECIFICATIONS

DATA OUTPUT	Analog Output (Option A) OR RS-232 Serial Output (Option E)
ROLLERS	Standard rollers are 2" long, Delrin. For 3" length or other materials (stainless steel, aluminum) order Custom Rollers (Option R)
BATTERY	NiMH (NOT lithium ion). Rechargeable. Up to 8 hours continuous use per charge.
WARRANTY	One year against factory defects.



MODEL	RANGE		RESOLUTION	TOLERANCE (+/- FULL-SCALE)	CALIBRATION
	MIN	MAX			
BTX-25-1	3	25	0.2	0.5	BTX-1 meters are custom-calibrated for each material to be measured. See box below for details.
BTX-50-1	5	50	0.2	1	
BTX-100-1	5	100	0.2	2	
BTX-250-1	5	250	0.2	5	
BTX-500-1	25	500	1	10	

*Contact Tensitron about measuring more rigid materials and/or diameters up to 3/4 in. (19mm)

CALIBRATION

BTX-1 meters are calibrated to user-specified materials (up to 10). When ordering, provide a 10-foot-long sample of each material the meter will be measuring.

Within the tension ranges shown above, the meter can be scaled to your expected tension levels. This will improve accuracy at those tension levels.

Standard accuracy is +/- 2% full-scale. Accuracy may vary depending on the properties of the material measured.

**FOR STATIONARY TIE-DOWN OR RATCHET STRAPS UP TO 4 INCHES WIDE AND 1/4 INCH THICK,
USE THE STX-1 STRAP TENSION METER.**