

### Quick, easy tension testing for fine wires and filaments

- Increase yields and first quality
  - Improve process control
    - Save costs



### Convenient, Reliable Tension Measurement

- Standard menu includes extensive range of filament and copper wire diameters
- Custom rollers and calibrations available for other materials and diameters
- Tension ranges from 0 to 5,000 grams
- Measures moving or stationary materials
- Data averaging function evens out readings in fast-moving applications
- Displays tension in g., lb., or N
- Data storage and statistics
- Analog or serial data output (optional)
- Quick, easy, one-handed operation
- Easy-to-read, digital display
- Long-lasting, durable construction
- Color-bar graphic provides quick visual of tension
- Speed and Length readings (optional)
- Mounting bracket available for hands-free use
- Includes carrying case and calibration certificate

### Versatile Uses

- Copper wire, EDM wire, magnet wire
- Yarn, thread, fibers, filaments
- Fiberglass roving
- Carbon fiber
- Fiber optic strands and thin cables
- Film, tape, ribbon

### Specifications

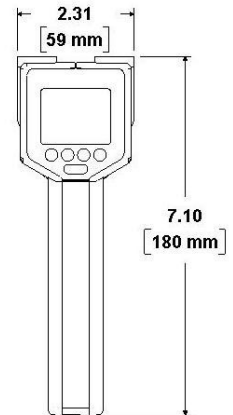
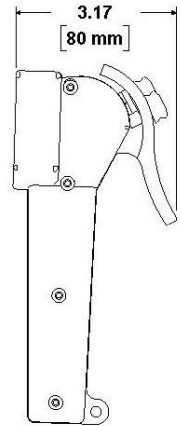
- Warranty: one year against factory defects
- Accuracy: +/- 1% full-scale
- Battery: NiMH (NOT lithium ion). Rechargeable. Up to 8 hours continuous use per charge.

To Order: Email: [Sales@Tensitron.com](mailto:Sales@Tensitron.com) or Call: 303.702.1980

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## Models

Model	Range	Standard TX-1 Menu Calibrations		Custom Calibrations
		Copper Wire	Filaments	
TX-125-1	0 - 125 g	54 - 37 AWG	.0001" - .006"	<b>Up to 10 custom calibrations are available for other materials or diameters. (See examples below left.)</b>
		.0002 - .0044"	.01 - .15 mm	
		.01 - .11 mm		
TX-1000-1	0 - 1,000 g	40 - 32 AWG	.0001" - .013"	
		.0002 - .008 in.	.01 - .30 mm	
		.08 - .20 mm		
TX-5000-1	50 - 5,000 g	40 - 28 AWG	.0001 - .019 in.	
		.0002" - .012"	.01 - .5 mm	
		.08 - .30 mm		
TX-5EDM-1	50 - 5,000 g	.10, .15, .20, .25, and .30 mm EDM wire .		



### Add up to 10 custom calibrations:

Example Material	Maximum Size
Solid Copper Wire:	20 AWG (.8 mm)
Stranded Steel Wire:	.04" (1 mm)
Solid steel wire:	.02 in. (.5 mm)
Tubing:	.2" (5 mm)
Tape, bands:	1-1/2" wide (38 mm)

*For larger materials or higher tension, use an LX-1 meter.*

### Options

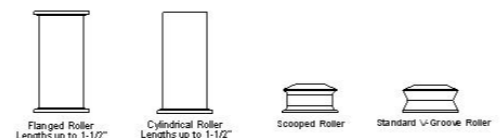
#### Data Output:

- Analog Output: Option A
- RS-232 Serial Output: Option E

#### Speed and Length: Option S

#### Mounting Bracket: Part No. TX-350

**Rollers:** Standard rollers are V-grooved for wire and filaments. For other materials, request Option R and specify shape:



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