

TX-1 Series Digital Tension Meters For small wire and other materials

Versatile tension measurement for:

- Wire, filaments, or other thin materials
- Tension up to 5000 g. (11 lb.)
- Moving or static applications

Easy to use:

- 1. Turn unit on and select material to be measured.
- Pull trigger. Place material under rollers. Release trigger to engage material.

Convenient, quantifiable quality control

Ideal for coil winding, textile manufacturing, EDM wire, and more.

- Superior technology
- Easy operation
- High precision
- Powerful features

3. Tension will display.

Features:

- Calibrated for extensive selection of filaments and copper wires
- Custom calibrations available (up to 10)
- Accurate +/- 1% full-scale (standard)
- Measures static or dynamic material
- Displays tension in g, lb, or N
- Stores tension values with one touch



- Dynamic Bar Graph provides quick, color visual of tension levels
- Calculates Data Statistics (count, max, min, average, standard deviation)
- Stabilizes readings on moving material with adjustable LCD refresh rates and data averaging feature
- Rechargeable battery powers the instrument for up to 12 hours of continuous use
- Large, clear, color display
- One-year warranty against factory defects
- Lightweight, protective carrying case included
- Data can be output to an electronic device with RS-232 or analog output option
- Calibration certificate included with values traceable to NIST Standards



- Mounting Bracket available
- Made in the USA



TENSITRON

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Models:

- **Standard Calibrations:** TX-1 meters come with standard calibrations for extensive selections of <u>copper wire</u> and <u>filaments</u>. (See the chart on the right.)
- **Special Calibrations:** Up to 10 special calibrations can be added for other materials, such as:
 - Large copper wire up to 20 AWG (1/32", .032", .8 mm)
 - <u>Tape, ribbon</u> up to 2" wide (50mm)
 - Fiber optics, fiber tow
 - <u>Solid steel wire</u> up to .02" (.5mm)
 - Braided steel wire up to .04" (1mm)
- **Custom Rollers:** Some materials may require custom rollers (see Options below).
- Larger Applications: For larger wires or higher tension, use an <u>LX-1</u>.

Ν	<u>Model</u>	Standard TX-1 M Custom calibration for other diameter	<u>Tension</u> <u>Range</u>	
		Copper Wire	Filaments	
TX-1	25-1	54 - 37 AWG .0002"0044" .0111 mm	.0001"006" .01 mm15 mm	0 - 125 g.
TX-1	000-1	40 - 32 AWG .0002"008" .08 mm20 mm	.0001"013" .01 mm30 mm	10 - 1000 g.
тх-5	5000-1	40-28 AWG .0002"012" .08 mm30 mm	.0001"019" .01 mm5 mm	50 - 5000 g.
TX-5	5EDM-1	.10, .15, .20, .25 and		

Options:	Part No.	Option Name	Option Description
1	-A	Analog Output	Outputs continuous tension readings for remote monitoring and automatic responsive action
	-E	RS-232 Digital Output	Uploads stored or real-time tension values to your electronic device
TX-350 Mounting Bracket	-R	Custom Rollers	TX-1 meters come standard with V-grooved pulleys for measuring wires and filaments. Custom rollers (see diagram) are available for measuring other materials.
	-S	Speed & Length	Indicate real-time speed (in FPM or MPM) and length of material measured.
V-Grooved Scooped Cylindrical Flanged	TX-350	Mounting Bracket	Mount your meter for safe, hands-free monitoring (for continuous monitoring, ask about Tensitron transducers)

Specifications:

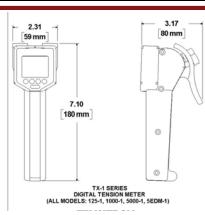
<u>Accuracy</u>: 1% +/- full-scale (standard). Accuracy for custom calibrations is material-specific.

<u>**Battery</u>**: NiMH (NOT lithium ion). Safe for air transport. Rechargeable. Up to 12 hours continuous use per charge.</u>

Power supply: Input: 100-240VAC, 50-60Hz, 0.48A, Output: 9 VDC, 2.2A

Weight & Dimensions:

- Instrument only: 7.10" x 2.31" x 3.17", .75 lbs (14 oz.)
- Instrument & Case: 12" x 9.5" x 3.75", 2 lb. 10 oz.
- Shipment weight & dimensions (1 unit in case): 16" x 12" x 7", 4 lb.





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