

TX-1 SERIES

DIGITAL TENSION METERS FOR FINE WIRE AND FILAMENTS

QUICK, EASY TENSION TESTING FOR FINE WIRES AND FILAMENTS

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



FAST & VERSATILE Quickly and easily test tension

- Quick, easy, one-handed operation
- Mounting bracket available for hands-free use
- Versatile measurement for:
 - Copper wire, EDM wire, magnet wire
 - Yarn, thread, fibers, filaments
 - Fiberglass roving
 - Carbon fiber
 - Fiber optic strands and thin cables
 - Film, tape, ribbon

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DEPENDABLE Save time and costs with durable construction

- Data storage and statistics
- Long-lasting durable construction
- Includes carrying case and NISTtraceable calibration certificate

ACCURATE Improve safety and performance

- Custom rollers and calibrations available for other materials and diameters
- Tension ranges from 0 to 5,000 g
- Selectable units (g, lb, or N)
- Analog or serial output (optional)
- Speed and length readings (optional)

CONVENIENT

User-friendly and easy to use

- Standard menu includes extensive range of filament and copper wire diameters
- Data averaging function evens out readings in fast-moving applications
- Easy-to-read, digital display
- Color-bar graphic provides quick visual of tension



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SPECIFICATIONS

ACCURACY+/- 1% full-scaleBATTERYNiMH (NOT lithium ion). Rechargeable. Up to 8 hours continuous use
per charge.WARRANTYOne year against factory defects.

MODEL	RANGE	STANDARD TX-1 MENU CALIBRATIONS		CUSTOM CALIBRATIONS
		COPPER WIRE	FILAMENTS	
TX-125-1	0 - 125 g	54 - 37 AWG	.0001"006"	Up to 10 custom calibrations are available for other materials or diameters.
		.0002"0044"	.0115 mm	
		.0111 mm		
TX-1000-1	10 - 1,000 g	40 - 32 AWG	.0001"013"	
		.0002"008"	.0130 mm	
		.0820 mm		
TX-5000-1	50 - 5,000 g	40 - 28 AWG	.0001"019"	See box below for details.
		.0002"012"	.015 mm	
		.0830 mm		
TX-5EDM-1	50 - 5,000 g	10, .15, .20, .25, and .30 mm EDM wire		

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

ADD UP TO 10 CUSTOM CALIBRATIONS: EXAMPLE MATERIAL MAXIMUM SIZE

Solid Copper Wire Stranded Steel Wire: . Solid steel wire: Tubing: Tape, bands: MAXIMUM SIZE 20 AWG (.8 mm) 04" (1 mm) .02 in. (.5 mm) .2" (5 mm) 1-1/2" wide (38 <u>mm)</u>

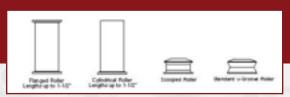
OPTIONS

Data Output: Analog Output (Option A) OR RS-232 Serial Output (Option E)

Speed and Length: Option S

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

Mounting Bracket: with magnetic base, Part No. TR-700.



FOR LARGER MATERIALS OR HIGHER TENSION, USE AN LX-1 METER.