TENSITRON®

A KTC Instruments Company



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

DEPENDABLE

Save time and costs with durable construction

- Data storage and statistics
- Long-lasting durable construction
- Includes carrying case and NIST-traceable 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

WWW.TENSITRON.COM \\ 303 702 1980 \\ SALES@TENSITRON.COM \\ 2011 KEN PRATT BLVD. SUITE 210 LONGMONT, CO 80501

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SPECIFICATIONS

ACCURACY +/- 1% full-scale

BATTERY NiMH (NOT lithium ion). Rechargeable. Up to 8 hours continuous use per charge.

WARRANTY One year against factory defects.



MODEL	RANGE	STANDARD TX-1 MENU CALIBRATIONS		RESOLUTION	CUSTOM CALIBRATIONS
		COOPER WIRE	FILAMENTS		
TX-125-1	0 - 125 g	54 - 37 AWG	.0001" - .006"	0.1 g	Up to 10 custom calibrations are available for other materials or diameters. *See box below for details.*
		.0002" - .0044"	.01 - .15 mm		
		.01 - .11 mm			
TX-1000-1	0 - 1,000 g	40 - 32 AWG	.0001" - .013"	1 g	
		.0002" - 008"	.01 - .30 mm		
		.08 - .20 mm			
TX-5000-1	50 - 5,000 g	40 - 28 AWG	.0001" - .019"	5 g	
		.0002" - .012"	.01 - .5 mm		
		.08 - .30 mm			
TX-5EDM-1	50 - 5,000 g	.10, .15, .20, .25, and .30 mm EDM wire		5 g	

*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	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)

OPTIONS

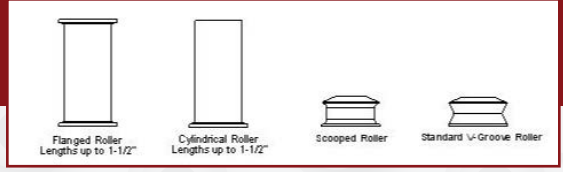
Data Output: Analog Output (Option A) OR RS-232 Serial Output (Option E)

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. TX-350.



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

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