

# TENSITRON®

A KTC Instruments Company



## TR SERIES

WIRE AND FILAMENT MECHANICAL TENSION METER

**QUICK, EASY TENSION TESTING FOR FINE WIRES, FILAMENTS, AND OTHER MATERIALS**

Improves yields and first quality • Ensures consistency



### FAST & VERSATILE

Quickly and easily test wire and filament tension

- Quick, easy, one-handed operation
- Lightweight, portable, and compact
- Right- or Left-Hand Operation



### ACCURATE

Improve safety and performance

- Measures moving or stationary materials
- Tension ranges from 0 to 5,000 grams



### DEPENDABLE

Save time and costs with durable construction

- Durable, reliable construction
- Magnetic dampening stabilizes readings
- Corrosion-resistant versions available for damp environments
- Includes carrying case and NIST-traceable calibration certificate



### CONVENIENT

User-friendly and easy to transport

- Equipped with rollers for dynamic or static measurement
- Custom rollers available for specialized applications
- Mounting Bracket allows for continuous, hands-free monitoring (optional)

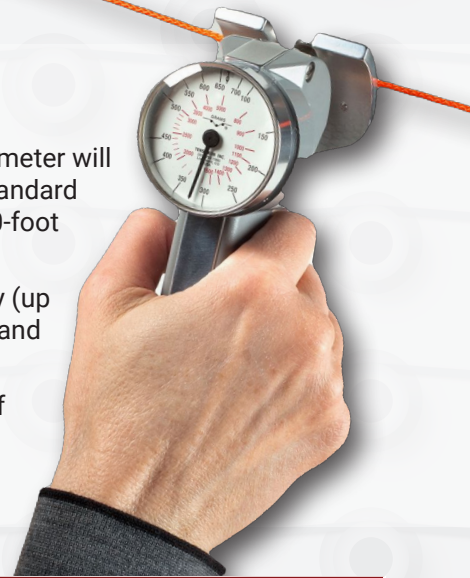
#### VERSATILE TENSION MEASUREMENT FOR:

Copper wire (up to 20 AWG) • EDM wire, magnet wire (up to .8mm) • Solid steel wire (up to .02", .5mm)  
Stranded steel wire (up to .04", 1mm) • Yarn, thread, fibers, filaments • Fiberglass roving • Carbon fiber  
Fiber optic strands and thin cables • Film, tape, ribbon (up to 1-1/2", 38mm wide) • Tubing (up to .2", 6mm)



## SPECIFICATIONS

- MATERIAL** TR meters are calibrated for a single material. For other materials, the meter will provide a repeatable reference, but not a direct tension reading. The standard calibration is a *textile filament*. For other materials, send Tensitron a 10-foot sample of your material and request a special calibration.
- ACCURACY** With standard calibration, accuracy is +/- 8% full-scale. Higher accuracy (up to +/- 2%) may be achieved with a special calibration for your material and tension range.
- DIAL** TR meters have dial faces with black numbers for the first revolution of the pointer and red numbers for the second revolution.
- WARRANTY** One year against factory defects.



MODEL	RANGE		TOLERANCE
	MIN GRAMS	MAX GRAMS	(+/- 8% FULL SCALE) GRAMS
TR-25	3	25	+/- 2
TR-125	3	125	+/- 10
TR-250	3	250	+/- 20
TR-1000	5	1000	+/- 80
TR-2000	25	2000	+/- 160
TR-4000	50	4000	+/- 320
TR-5000	100	5000	+/- 400

- OPTIONS** **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.
- Corrosion Protection:** -RT versions are available with corrosion-resistant components.

