

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 NISTtraceable 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)

## **TENSITRON®**

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### **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.

