

## Economical TENSION METERS

### Type Z Series

ZF2 & ZD2

A precision movement and light-weight, hard plastic housing make the Type Z Series ideal for accurately checking the operating or static tensions of a wide variety of process materials including delicate yarns, fibers, filaments, wires, etc.

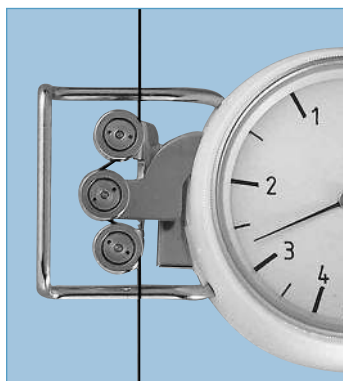


### FEATURES

- A trigger-operated, roller-shifting mechanism and exclusive snare-guide automatically guide the moving filament into the roller V-grooves eliminating breaks and snags.
- Front filament loading permits the operator to observe the filament, rollers and dial at all times.
- Each instrument is individually calibrated with each scale hand marked to provide the highest reading accuracy.
- ZF2 roller guides are rated for speeds up to 900 m/min or, optionally, up to 2000 m/min.
- ZD2 roller guides are rated for speeds up to 2000 m/min or, optionally, 5000 m/min.
- Supplied in an attractive foam-fitted carrying case.
- NIST calibration available.

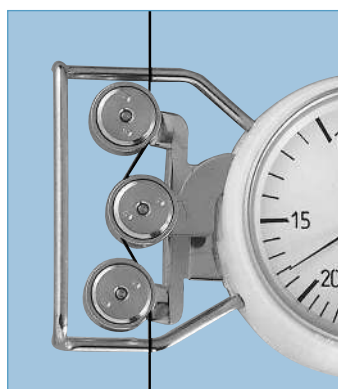
## Type Z Series

### Applications



#### ZF2 Models

Miniaturized rollers make these models ideal for delicate fibers, low tensions or when access space is limited.



#### ZD2 Models

Recommended for all other applications where miniaturized rollers are not needed.

### Tension Ranges

Model Prefix	ZF2				ZF2 or ZD2			ZD2		
Range Code	5	10	12	20	30	50	100	150	200	300
Tensions (g)	1–5.0	1–10	1–12	2–20	3–30	5–50	10–100	20–150	20–200	20–300

Note: Complete model number includes Prefix plus Range Code (Example: ZF2-12).

Specifications	ZF2	ZD2
<b>Accuracy*</b>	± 1% of Full Scale or ± 1 graduation mark on scale	± 1% of Full Scale or ± 1 graduation mark on scale
<b>Outer roller distance: c : c</b>	22 mm (0.87")	33 mm (1.5")
<b>Diameter of Dial</b>	54 mm (2.13")	54 mm (2.13")
<b>Dimensions</b>	150 x 120 x 30 mm (5.9" x 4.7" x 1.2")	150 x 120 x 30 mm (5.9" x 4.7" x 1.2")
<b>Weight</b>	210 g (7.5 oz.)	230 g (8.2 oz.)
<b>Roller Material (Standard)</b> " " (Optional)	Hard-coated aluminum Phenolic plastic	Hard-coated aluminum See DX2 Specifications
<b>Maximum Linear Speed (Standard)</b> " " " (Optional)	900 meters/min 2000 meters/min (K)	2000 meters/min 3500 meters/min (K) 5000 meters/min (HS)
<b>Other Options</b>	_____	Calibration for horizontal material path (rollers pointing down) (D)  Memory pointer

\* Using factory material standards and procedures. Special calibration using customer sample is available.

Specifications subject to change without notice.