

Optic Fiber

TENSION SENSOR

Model TF

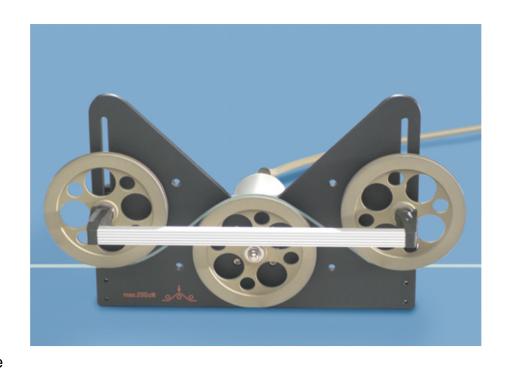
6 Tension Ranges 0-100 g up to 0-5.00 Kg

Large 70 mm aluminum rollers minimize bending of material which might damage or break the fragile filament.

The outer rollers are mounted on a movable plate to minimize contact when measurements are not being made.

Tension ranges of 10Kg and higher are available without moveable outer rollers.

Built-in signal conditioning with ZERO and SPAN pots provide a high-level, analog output to minimize the chance for signal interference.



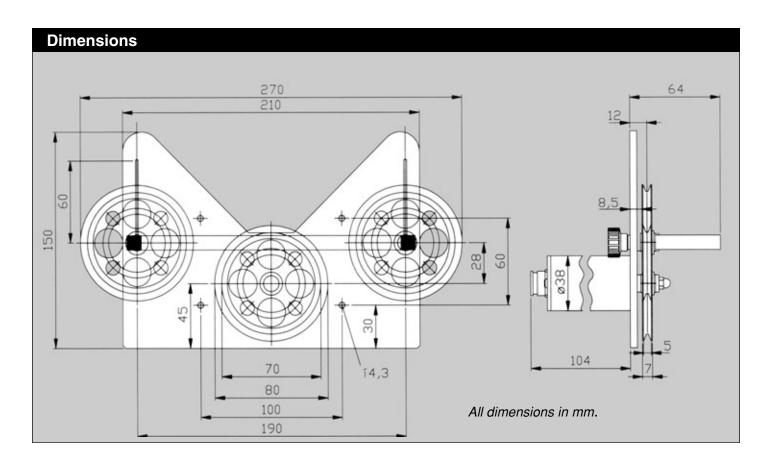
FEATURES

- 70mm V-grooved rollers are rated for speeds up to 5000 m/min
- Precision strain gauge sensing insures highest accuracy
- Frequency response of 100 Hz
- Surface mount electronics provide long-term reliability

- Optional roller types are available for a wide variety of material profiles
- Optional 5 ft. cable, TE-CABLE-CC is recommended. Longer lengths are available
- 0-1 V DC output, proportional to tension (0-10 V DC optional)

TENSION RANGES							
Model #	TF-100	TF-200	TF-500	TF-1K	TF-2K	TF-5K	
Range	0-100 g	0-200 g	0-500 g	0 –1000 g	0–2000 g	0-5.00 Kg	





Specifications				
Accuracy Sensor Excitation Middle Roller Deflection	±1.5% FS or better 12 –18 V DC, 21 mA 0.5 mm (maximum)	Spacing of Outer Rollers Roller Diameter (Root) Roller Material	190mm 70mm Hard-Anodized	
Sensor Output	0-1 V DC (standard), 0-10 V DC (optional), proportional to tension	Maximum Linear Speed Operating Temp.	Aluminum 5000 m/min	
Overload Rating Housing Material	150% FS Aluminum	Operating Temp.	40 to 105 °F (5–40 °C)	

Specifications subject to change without notice.