

Digital Hand-Held Tension Meter | FTMB / FTMX



The FTMB is a special tension meter for sensitive materials as optical fibers, carbon fibers, technical fibers etc. It uses low-inertia 32 mm dia. rollers for fragile materials sensitive to bending over a small radius. Rollers are available in plastic or aluminum.

FTMX Additional Features

- Built-in datalogging with RS232 and 0-1 VDC Analog output
- Memory capacity of 100 values plus min, max, peak, avg and standard deviation
- Optional TensionView software available for batch download or continuous real-time trending

Features

- Special guides on the bracket assembly permit easy material acquisition
- Filament guide and roller shifting mechanism ensure easy acquisition of the running material
- large, V-grooved guide rollers with 32 mm groove diameter, ball-bearing mounted

Specifications

Calibration	According to SCHMIDT factory procedure
Accuracy	From 10% up to 90% of tension range: $\pm 0.5\%$ full scale and ± 1 digit remaining tension range and other calibration material: $\pm 3\%$ full scale and ± 1 digit
Overrange	Approx. 15% full scale, without accuracy guarantee
Overload protection	100% of tension range
Measuring principle	Strain gauge bridge
Measuring roller deflection	0.2 mm max.
Converter	12 bit A/D
Temperature Coefficient	Gain: less than $\pm 0.01\%$ full scale/ $^{\circ}\text{C}$ Zero point: less than $\pm 0.3\%$ full scale/ $^{\circ}\text{C}$
Display	LCD 4 digit, 12 mm high
Field adjustment	± 7 steps in 1.5 % increment
Memory	MIN, MAX, PEAK and last value
Temperature range	10 - 45 $^{\circ}\text{C}$
Air humidity	85 % relative humidity, max.
Housing Dimensions	235 x 76 x 45mm (LxWxH)

