

Digital Hand-Held Tension Meter | DTLB - DTLX

DTLB Standard Model
DTLX Data-Logging Model

3 Ranges Up To 10 Kg

For material diameters up to 8mm (5/16")

Requires Calibration with Customer Sample

DTLB and DTLX models feature large diameter rollers with wide roller spacing to minimize bending when measuring tensions on rigid/stiff materials such as certain canles, buffer tubes, central strength members, plastic tubes, etc.



DTLX 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

- Large, V- or U-grooved guide rollers with 29.5 mm groove diameter, ball-bearing mounted
- Large bending radius assures gentle handling of the material being measured
- Special guides on the bracket assembly permit easy material acquisition
- A precision strain-gauge sensing system accurately measures the force on the middle sensing roller.
- High-Speed Measurement Captures Max, Min & Peak Tension Values
- Requires Calibration on Customer Sample

Specifications

*Accuracy	$\pm 0.5\%$ Full Scale, ± 1 digit (10 - 90% of Full Scale) $\pm 3.0\%$ Full Scale, ± 1 digit (Remaining portion of range)
Measuring Frequency	Measuring Frequency
Deflection of Sensing Roller	0.2 mm (maximum)
Overload Capacity	200% of Full Scale
Display	4-Digit LCD, 12 mm high
Display Update Rate	0.5, 1.0, 2.0 or 4.0 seconds, dip-switch selectable

Standard Memory	Last, maximum, minimum and peak
Calibration	Requires Calibration on Customer Sample
Field Calibration Adjustment	± 7 steps, 1.5% per step
Battery Type	Four (4) 1.5 V AA (included)
Battery Life	20 hours, continuous use
Auto Power Off	After 2 minutes of non-use
Roller Material	hardened steel
Maximum Speed	4000 m/min
Housing Material	Die-cast Aluminum
Weight	1.43 lbs. (650 g)
Operating Temperature	32 to 132 °F (0 to 45 °C)
Warranty	One year
AC Adapter (optional)	6 VDC @ 300 mA, for continuos in-line use
DTLX	Additional Specifications
Memory Capacity	100 values plus maximum, minimum, average, peak, standard deviation and memory location
Memory Operation	Continuous Mode: Automatic storage of each displayed value until memory is full On-Demand Mode: Displayed value is stored when STORE key is pressed
Serial Output	RS-232C (4800 baud, 8 bit word length, no parity, 2 stop bits)
Analog Output	0-1 VDC, proportional to tension range

