



ETM2/ETMP2

Limited Access Digital Tension Meter

3 Tension Ranges: 0.5–100.0, 1.0–200, 1.0–500

Measuring Units: User selectable units, Grams (g) or Centinewtons (cN)

Data Storage: MIN, MAX and PEAK tension values which can be recalled or downloaded to a PC

New filament guide for easy acquisition of material

Reversible display for right or left-hand operation

Rollers: Choice of miniature, high speed rollers for filament speeds up to 2000 m/min or non-rotating, ceramic pins for speeds to 6000 m/min.

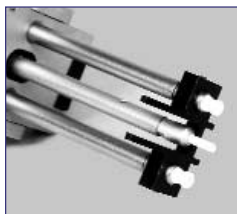
Adjustable damping for easier readings when tension fluctuates

Output voltages for a recorder, serial printer or remote display.

Datalogging model available with built-in memory for 4000 readings (Models ETM2X or ETMP2X).

The CHECK•LINE® ETM2 Electronic Tension Meter accurately measures the running line tension of yarns, fibers and specialty filaments.

Three long, closely spaced slender shafts with precision guide rollers or pins at their ends combine with the latest microprocessor technology to make this instrument top choice for all limited-access tension measuring applications. An ETMP2 model, supplied with non-rotating ceramic pins is also available.



ETMP2 with non-rotating ceramic pins



Outer rollers tilt back for easy material acquisition



Precision guide rollers combined with the latest microprocessor technology

Specifications

Accuracy	± 1% FS ± 1 digit or better	Overload Protection	200%
Minimum Access Space Required	3/4" x 1" (20 x 26mm)	Temperature Limits	40-115° F (5-45° C)
Guide Rollers / Pin Material	Rollers: hard-coated aluminum Pins: ceramic Std: 2000 m/min Optional: 6000 m/min	Automatic Zero	± 20% of range
Outputs Signal Analog	ANALOG, 0-2.0 V DC, proportional to tension	Rel. Humidity Limit	85%
Outputs Signal Digital	2 readings per sec. (internal measuring frequency, 5 kHz)	Battery/Life	9 volt, long-life lithium (included), non-rechargeable / Approx. 80 hrs. (Note: A Standard 9V alkaline battery can be used, but with reduced life.)
Measuring Principle	Strain-gauge bridge	Low Battery Indicator	LO BAT, or equivalent display
Maximum Sensing-Roller Displacement	0.5mm	Weight	14 oz. (400 g)
Display Update	0.5 sec.	Dimensions	13" x 1-3/4" x 1" (330 x 45 x 25mm)
Natural Frequency	250 Hz	Complete Kit	Tension Meter, long-life 9V lithium battery, and manual, all supplied in a foam-fitted carrying case.
Over Range	10% FS, without accuracy guarantee	Accessories	Analog output cable (ETM2-CA) RS232 cable (ETM2-CS) Tension Inspect data analysis software (ETM2-SV1)

Data Analysis Software



Tension Inspect Data Analysis Software (optional, part no. ETM2-SV1) is an easy-to-use program designed to display, record, graph and print data transferred from the Check-Line ETM2 Digital Tension Meter.

Tension Ranges

Model	Range	Model With Pins
ETM2-100	0.5-100.0	ETM2P-100
ETM2-200	1.0-200	ETM2P-200
ETM2-500	1.0-500	ETM2P-500



Complete Kit: The ETM2 is supplied as a complete kit, including the gauge, 9 volt Lithium battery and operating manual, all in a foam-fitted carrying case

CHECK•LINE® - PRECISION QUALITY CONTROL INSTRUMENTS

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