

Data Logging TENSION METERS

DTMX

8 T ension Ranges 0.1–200.0 g up to 2.00 – 20.00 Kg

The new CHECK•LINE DTMX Digital T ension Meter offers a wealth of advanced features, including built-in data logging with statistics and the ability to download data to printers, computers and recorders.

Its rugged, die-cast aluminum housing and surface-mount electronics make it especially resistant to damage, even in the toughest production environments.

FEATURES

- Built-in memory for 100 data points plus statistics
- Automatic calculation and display of maximum, minimum, average, peak & standard deviation values
- Downloading of all data & statistics to printers, computers or recorders using serial and analog outputs
- Calibration is available in grams or pounds



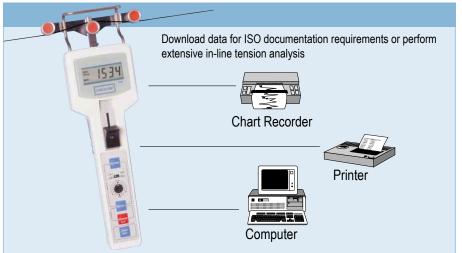
- T ensions are sampled at 62.5 times /sec & averaged over a user-selected interval of 0.5, 1, 2 or 4 seconds
- Thickness Compensator, Rigidity Selector and Field Adjustment permit fine tuning of the calibration for the highest accuracy on different process materials
- Built-in mounting holes permit fixed installation for continuous in-line use

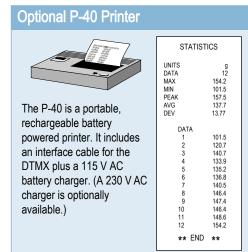
- Hard-coated, V-grooved aluminum rollers rated for speeds up to 2000 m/min or, optionally , up to 5000 m/min
- Powered by 4 AA batteries
- Optional NIST Calibration Certification





DTMX





Model Data								
Model	DTMX-200	DTMX-500	DTMX-1K	DTMX-2K	DTMX- 2.5KB	DTMX-5KB	DTMX-10KB	DTMX-20KB
Tension Range (grams)	0.1–200.0	0.1-500.0	50-1000	200 –2000	250 – 2500	500 – 5000	1.00 – 10.00 Kg	2.00 –20.00 Kg
Accuracy	<u>+</u> 1.0% or better		±1.5% or better					
Outer Roller Distance (c:c)	38 mm	38 mm	38 mm	38 mm	100 mm	100 mm	100 mm	200 mm

Specifications					
Measuring Principle	Strain gauge	Analog Output	0 –1 VDC, proportional to tension range		
Measuring Frequency	16 msec (62.5 samples/sec)	Frequency Response (Analog Output)	msec (62.5 Hz)		
Deflection of Sensing Roller (max.)	0.2 mm	Battery Type	Four (4) 1.5 V AA (included)		
Overload Capacity	200% of Full Scale	Battery Life	20 hours, continuous use		
Temperature Coefficient	Zero: less than ± 0.3% FS/°C Span: less than ± 0.01% FS/°C	AC Adaptor (optional)	6 V DC @ 200 mA, for continuous inline use		
Display	4-Digit LCD, 12 mm high	Auto Power Off	After 2 minutes of non-use		
Display Update Rate	0.5, 1.0, 2.0 or 4.0 seconds, dip-switch selectable	Roller Material (standard) (optional)	Hard-coated Aluminum Hardened Steel (ST) Ceramic (CE) Plastic (PL)		
Memory Capacity	100 values plus maximum, minimum, averge, peak, standard deviation and	Maximum On and (standard)			
M	memory location	Maximum Speed (standard) (optional) 500	2000 m / min 00 m <i>l</i> min		
Memory Operation	Continuous Mode: automatic storage of each displayed value until memory is full	Housing	Die-cast Aluminum		
	On-Demand Mode: displayed value is stored when STORE key is pressed	Dimensions	2.95" W x 10.83" H x 1.77" D (75 x 275 x 45 mm)		
Overrange Indicator	Value will blin k on/off , then "FFFF"	Weight (approximate)	1.43 lbs. <i>(650 g)</i>		
Overrange Indicator	± 7 steps, 1.5% per step	Operating Temperature	32 to 132 °F (0 to 45 °C)		
Field Calibration Adjustment Serial Output	RS-232C (4800 baud, 8-bit word length, no parity, 2 stop bits)	Accessories Included	4 AA batteries, output connector and operating instruction guide, all in a fitted, hard-plastic carrying case		

Specifications subject to change without notice.

