

## Data Logging TENSION METERS

## **DTMX**

8 Tension Ranges

0.1-200.0 g up to 2.00-20.00 Kg

The new CHECK•LINE DTMX Digital Tension 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**

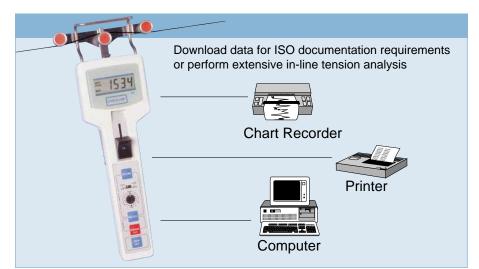
- Built-in memory for 100 data points plus statistics
- Automatic calculation and display of maximum, minimum, average, peak & standard deviation values
- Downloading of all data & statistics to printers, computers or recorders using serial and analog outputs
- Calibration is available in grams or pounds

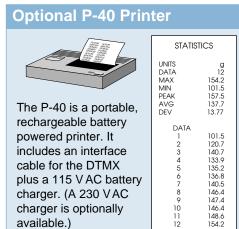
- Tensions are sampled at 62.5 times/sec & averaged over a user-selected interval of 0.5, 1, 2 or 4 seconds
- Thickness Compensator, Rigidity Selector and Field Adjustment permit fine tuning of the calibration for the highest accuracy on different process materials
- Built-in mounting holes permit fixed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





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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	± 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 16 msec (62.5 Hz)	
Measuring Frequency Deflection of Sensing Roller (max.)	16 msec (62.5 samples/sec) 0.2 mm	Frequency Response (Analog Output)  Battery Type	Four (4) 1.5 V AA (included)	
Overload Capacity	200% of Full Scale	Battery Life	20 hours, continuous use	
Temperature Coefficient	$\underline{Zero}$ : less than $\pm 0.3\%$ FS/°C $\underline{Span}$ : less than $\pm 0.01\%$ FS/°C	AC Adaptor (optional)	6 VDC @ 200 mA, for continuous in-line 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) 2000 m/min 5000 m/min	
Memory Capacity	100 values plus maximum, minimum, averge, peak, standard deviation and	_		
Memory Operation	memory location Continuous Mode: automatic storage	Maximum Speed (standard) (optional)		
, .	of each displayed value until memory	Housing	Die-cast Aluminum	
	is full 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 blink on/off, then "FFFF"	Weight (approximate)	1.43 lbs. (650 g) 32 to 132 °F (0 to 45 °C) 4 AA batteries, output connector and operating instruction guide, all in a fitted, hard-plastic carrying case	
Field Calibration Adjustment	± 7 steps, 1.5% per step	Operating Temperature		
Serial Output	RS-232C (4800 baud, 8-bit word length, no parity, 2 stop bits)	Accessories Included		

Specifications subject to change without notice.



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For additional information or to place an order CALL TOLL FREE

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