

Data Logging TENSION METERS


NEW

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



Download data for ISO documentation requirements or perform extensive in-line tension analysis

Chart Recorder

Printer

Computer

Optional P-40 Printer



The P-40 is a portable, rechargeable battery powered printer. It includes an interface cable for the DTMX plus a 115 V AC battery charger. (A 230 V AC charger is optionally available.)

STATISTICS	
UNITS	g
DATA	12
MAX	154.2
MIN	101.5
PEAK	157.5
AVG	137.7
DEV	13.77
DATA	
1	101.5
2	120.7
3	140.7
4	133.9
5	135.2
6	136.8
7	140.5
8	146.4
9	147.4
10	146.4
11	148.6
12	154.2
** END **	

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
Measuring Frequency	16 msec (62.5 samples/sec)
Deflection of Sensing Roller (max.)	0.2 mm
Overload Capacity	200% of Full Scale
Temperature Coefficient	<u>Zero:</u> less than ± 0.3% FS/°C <u>Span:</u> less than ± 0.01% FS/°C
Display	4-Digit LCD, 12 mm high
Display Update Rate	0.5, 1.0, 2.0 or 4.0 seconds, dip-switch selectable
Memory Capacity	100 values plus maximum, minimum, average, peak, standard deviation and memory location
Memory Operation	<u>Continuous Mode:</u> automatic storage of each displayed value until memory is full <u>On-Demand Mode:</u> displayed value is stored when [STORE] key is pressed
Overrange Indicator	Value will blink on/off, then "FFFF"
Field Calibration Adjustment	± 7 steps, 1.5% per step
Serial Output	RS-232C (4800 baud, 8-bit word length, no parity, 2 stop bits)
Analog Output	0-1 VDC, proportional to tension range
Frequency Response (Analog Output)	16 msec (62.5 Hz)
Battery Type	Four (4) 1.5 V AA (included)
Battery Life	20 hours, continuous use
AC Adaptor (optional)	6 VDC @ 200 mA, for continuous in-line use
Auto Power Off	After 2 minutes of non-use
Roller Material (standard) (optional)	Hard-coated Aluminum Hardened Steel (ST) Ceramic (CE) Plastic (PL)
Maximum Speed (standard) (optional)	2000 m/min 5000 m/min
Housing	Die-cast Aluminum
Dimensions	2.95" W x 10.83" H x 1.77" D (75 x 275 x 45 mm)
Weight (approximate)	1.43 lbs. (650 g)
Operating Temperature	32 to 132 °F (0 to 45 °C)
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.



Albuquerque Industrial
69-10 108th Street # 2-O
Forest Hills, NY 11375 U.S.A.

www.abqindustrial.net
e-mail: info@abqindustrial.net
Toll Free: +1 (888) 275-5772
Tel: +1 (718) 846-6458
Fax: +1 (718) 846-6459