CHECK·LINE®
BY ELECTROMATIC

NEW

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.

Model DTMX-5KB

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	Zero: less than ±0.3% FS/°C Span: 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, averge, 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
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.

ELECTROMATIC
E Q U I P M E N T   C O . ,   I N C .

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**For additional information
or to place an order
CALL TOLL FREE
1-800-645-4330**