

# CX-1 Series Digital Tension Meters

For large cables and other materials

## Versatile tension measurement for:

- Cable, wire rope, and more
- Flexible materials
- 1/16" to 3/4" diameter (1.6 - 19 mm)
- Tension 10 - 2,000 lb. (5 - 907 kg)
- Static or slowly moving applications

## Easy to use:

1. Turn unit on and select material.
2. Place material on rollers, then tighten lever to engage.
3. Tension will display.



## Precise, convenient tension measurement for large, flexible cables

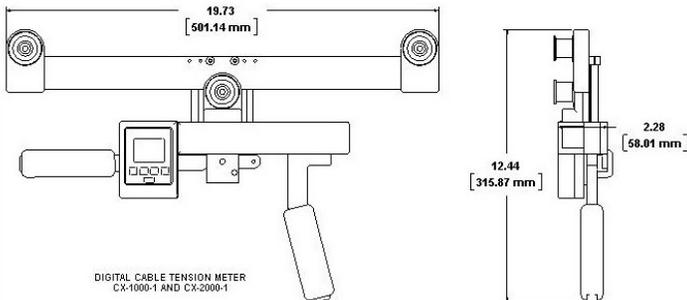
- Superior technology
- Easy operation
- High precision
- Powerful features

**Ideal for catenary systems, elevator maintenance, telecommunications cable, guy wire, zip lines, theater rigging, and more**

## Features and Specifications:

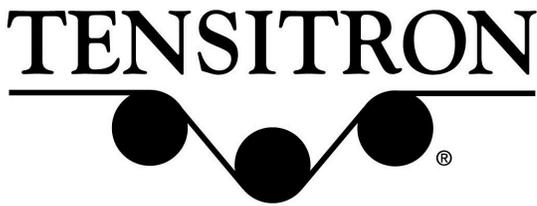
- Calibrated for up to ten materials
- Accurate +/- 2% full-scale
- Large, clear, color display
- Shows tension in lb, kg, or daN
- Dynamic Bar Graph provides quick, color visual of tension levels
- Stores tension values with one touch

- Calculates Data Statistics (count, max, min, average, standard deviation)
- Stabilizes readings on moving material with adjustable LCD refresh rates and data averaging feature
- One-year warranty against factory defects
- Data can be output to an electronic device with RS-232 or analog output options
- Calibration certificate included with values traceable to NIST Standards
- Includes power supply: Input: 100-240VAC, 50-60Hz, 0.48A, Output: 9 VDC, 2.2A
- Rechargeable NiMH battery is safe for air transport and provides up to 12 hours continuous use per charge.
- Made in the USA



**Made in USA**

TO ORDER: Email: [Sales@Tensitron.com](mailto:Sales@Tensitron.com), T: 303-702-1980, F: 303-702-1982  
TENSITRON ~ 733 S. Bowen Street, Longmont, CO 80501, USA  
SEE OUR WEBSITE: [www.Tensitron.com](http://www.Tensitron.com)



# CX-1 Series

## Digital Tension Meters

For large cables and other materials

### Models:

Each CX-1 is custom-calibrated for user-specified material(s).

The meter can be calibrated for up to 10 materials.

To order, provide a description or 10' / 2m sample of each material to be included in the calibration menu.

#### Standard CX-1 Instruments (19.73"-wide profile)

<u>Model</u>	<u>Range</u>		<u>Min/Max Cable Diameter</u>	<u>Accuracy</u>	<u>Resolution</u>
<b>CX-1000-1</b>	50 - 1,000 lb	23 - 453 kg	1/8" - 3/4" (3 - 19 mm)	+/- 20 lb (9 kg)	5 lb
<b>CX-2000-1</b>	100 - 2000 lb	46 - 907 kg		+/- 40 lb (18 kg)	10 lb.

#### Compact CX-1 Instruments (15"-wide profile)

<u>Model</u>	<u>Range</u>		<u>Min/Max Cable Diameter</u>	<u>Accuracy</u>	<u>Resolution</u>
<b>CX-1000-SM-1</b>	50 - 1,000 lb	23 - 453 kg	1/8" - 3/8" (3 - 9 mm)	+/- 20 lb (9 kg)	5 lb
<b>CX-2000-SM-1</b>	100 - 2000 lb	46 - 907 kg		+/- 40 lb (18 kg)	10 lb.

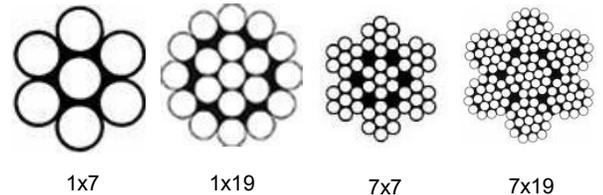
#### Low-Range CX-1 Instruments (15"-wide profile)

<u>Model</u>	<u>Range</u>		<u>Min/Max Cable Diameter</u>	<u>Accuracy</u>	<u>Resolution</u>
<b>CX-250-SM-1</b>	10 - 250 lb	5 - 113 kg	1/16" - 3/8" (1.6 - 9 mm)	+/- 5 lb (2.2 kg)	0.5 lb
<b>CX-500-SM-1</b>	25 - 500 lb	11 - 226 kg		+/- 10 lb (4.5 kg)	1 lb.

### Wire rope construction:

**CX-1 instruments only measure flexible materials.**

For wire rope with 1x7 or 1x19 construction (or similar), the largest diameter a CX-1 can measure is about 3/8" (9mm). For wire rope larger than 3/8", the construction must be 7x7, 7x19, or similarly flexible.



### Options:



<u>Part No.</u>	<u>Option Name</u>	<u>Option Description</u>
<b>-A</b>	<b>Analog Output</b>	Outputs continuous tension readings for remote monitoring and automatic responsive action
<b>-E</b>	<b>RS-232 Digital Output</b>	Uploads stored or real-time tension values to your electronic device
<b>CASE-CX</b>	<b>Heavy duty case</b>	Case is optional. Without it, meter ships in a reusable, foam-lined cardboard box.

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