DynaTension®

The Most Accurate Meters For Today's Tension Testing!

- Accuracy To ±1%
- Easy-To-Use
- Field Proven
- Reliable
- Maintenance Free
- Patented

DynaTension Meters are patented portable tensiometers that measure tension in cable, rope, belt, optical fiber...or virtually any materials that are subjected to load.

DynaTension senses the fundamental frequency of vibration between two fixed points. It computes the corresponding tension more accurately than conventional load cells, piezoelectric devices or dynamometer spring deflection methods. The computed tension is then displayed on an easy-to-read high contrast LCD in your choice of kilopounds (KIPS) or kilonewtons (KNS).

DynaTension Measures:

- Tension in electromechanical, steel or synthetic cables without bends or sheaves.
- Tension in either moving or stationary cable, chain, rope, belt, filament or webbing without physical contact.
- Tension in stressed rods and beams. Maintenance Free.

DynaTension is accurate over a range from less than .001 lb to 9,999,000 lbs.

DynaTension operates maintenance free. There is no recalibration. Operation is unaffected by weather, cable lubricants, dirt, shock or overload.

Cost Efficient – Simple to use

Cost Efficient. DynaTension eliminates need for in-line installation.

Allows normal operations to continue uninterrupted. Operates on a single rechargeable battery up to 15 hours .

DynaTension's accuracy and durability are proven worldwide, onshore and offshore. Potential applications include subsea, subsurface, air and outerspace.

Today the U.S.Navy's entire fleet of aircraft carriers relies on DynaTension to set critical tensions in aircraft elevator cables.

For application assistance contact your local DynaTension representative or our manufacturing facility in Houston.

DynaTension®

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DynaTension® – EASY-TO-USE AND USER FRIENDLY

1. Enter the weight per foot of the material to be measured on the key pad.

2. Enter the length in inches between your selected fixed points.

3. Position sensor parallel and near the cable. With other hand, tap cable.

4. In seconds DynaTension will show an accurate tension reading.

Sensors

VARI-L 101 Sensor
(Variable Inductance Sensor)
5-1/2" x 1" x 1"

Designed for use with material on long spans under low tension. Uses low frequency bandwidth (1 Hz).

EOSENS 102 Sensor
(Electro-Optical Sensor)
5-1/2" x 1" x 1"

Utilizes an infra-red sensor designed for use on short spans of lightweight material less than 1/4" diameter.

ACSENS 103 Sensor
(Acceleration Sensor)
1-1/4" x 1/2" x 1/2"

A magnetic contact probe for hands free measurement of short spans under high tension.

Specifications – P1000

DynaTension P1000 Includes preprogrammed meter, sturdy nylon field case with storage compartment, velcrox closure, shoulder strap and recharger. Sensors not included.

	P1000
Height	4.0" 10.2cm
Width	10.5" 26.7cm
Depth	9.25" 23.5cm
Weight	5.0 lbs 2.3Kg
Span Length	0.5 ft to 328.0 ft 0.15m to 99.9 m

Power Source – 6 Volt Battery (Rechargeable-Charger included)
Operating Temperature Range -4°F to 150°F -20.0°C to 65.6°C
Tension/Overall Range 0.001 to 9,999,000 lbs (0.000454 to 4,539,546 Kg)
Tension/Span Per Range <1% to >100% of Breaking Strength
Resolution 0.01% **Accuracy** ±1% **Repeatability** Within 0.5%

Cable Weight Unlimited To 99.99 lbs/ft

DynaTension – Tested and Field Proven
U.S. Patent Number - 4565099