

Sonic Tension Meter 507C

Consistent, accurate tension readings every time!

Now you can get consistent, accurate tension readings without the stress, thanks to the Gates Sonic Tension Meter. It measures belt tension by analyzing the harmonic characteristics of a vibrating belt. Simply strum the belt like a guitar string and the meter takes care of the rest.

The force and deflection method used to be the only reliable way to test belt tension. Of course, it required a spring tester, plenty of muscle, a piece of string and unfortunately, at least three hands.

Belts, like strings, vibrate at a particular natural frequency based on mass and span length. Gates unique Sonic Tension Meter simply converts this frequency into a measurement of tension.

Here's how it works:

First, enter belt mass constant, belt width and span length into meter using built-in keypad. Next, hold meter sensor to belt span, then lightly strum belt to make it vibrate. Press "measure" button to obtain reading and the meter quickly converts vibrations into belt tension. Readings are displayed on a liquid-crystal screen.



** Belt mass constants are listed on a data card that comes with the Sonic Tension Meter.*

The Driving Force in Power Transmission®



Belt tension testing for the 21st Century

Compact, Light and Easy to Use

About the size of a cellular telephone, the Sonic Tension Meter can easily be operated by one person for fast, accurate readings on all types of synchronous belt drive systems and V-belt drives.* Use the standard cord sensor to reach inside cramped compartments where conventional measurements would be impossible.

An optional flexible sensor can be bent and repositioned for convenient, one-hand operation. Use the optional inductive sensor to measure belt tensions in high-noise or windy environments.

This smaller, lighter and more user friendly version of the meter features:

- 1 Output readings measurable in hertz, pounds, kilograms and newtons
- 2 Improved frequency range from 10 - 5000 hertz
- 3 Variable frequency range filters
- 4 Auto gain control automatically adjusts meter sensitivity
- 5 20 memory registers for belt constants
- 6 LCD screen with back light

* Recommended for Gates belt drive systems only.



Sonic Tension Meter 507C with Standard Cord Sensor



Optional Inductive Sensor



Optional Flexible Sensor

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