BTM-400 PLUS
Belt Tension Meter

- Strain gauge-based sensor provides accuracy of 2% Full Scale or better.

- Displays belt tension in Newtons (N) or pounds (lb) or, alternatively, frequency in Hertz (Hz)

- Takes measurements quickly, displaying accurate results within one second

- Easy-to-use keypad design simplifies operation

- Menus are displayed in English, or the user can select German, French or Italian

- Includes traceable calibration certificate

The meters' optical sensor is unaffected by ambient noise, offering improved performance versus competitive, accoustic sensor-based designs

Maintain drive belts at the manufacturer's recommended tension for maximum life.

Drive belts achieve maximum lifetime and efficiency when tensioned to the manufacturer's recommended tension.

The new CHECK•LINE® BTM-400 Belt Tension Meter provides an easy, reliable method for accurately measuring static tension in flat, V-, cog or toothed belts of rubber, leather, fabric, plastic and composite materials.
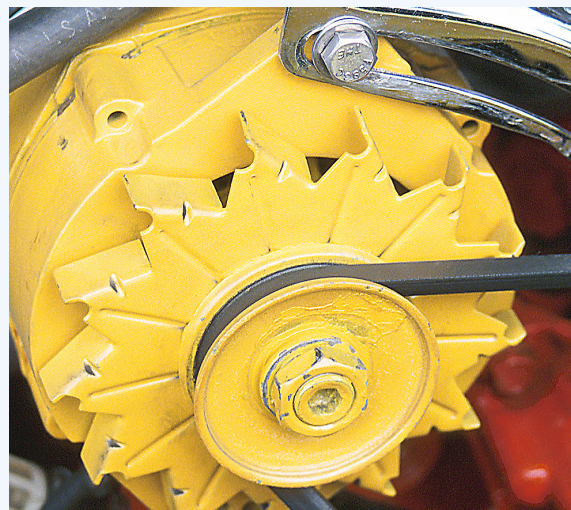
The BTM-400's hand-held, LED-optical sensor is cable-connected to the gauge body, which contains a microprocessor that converts the sensor signal to a pre-selected reading of either Belt Vibration Frequency (Hertz) or Belt Tension (Newtons [N] or pounds/force [lbf]).

Results are displayed on a bright, easy-to-read LCD display. An acoustic signal indicates a successful measurement.

Specifications

Measuring range	10 – 800 Hz
Digital sampling error	< 1%
Indication error	± 1 Hz
Total error	< 5%
Operating temp.	50 to 122 °F (10 to 50 °C)
Max. storage temp.	23 to 158 °F (–5 to 70 °C)
Gauge body material	Plastic (ABS)
Dimensions, body	3.15 in. x 4.96 in. x 1.47 in (80 x 126 x 37mm)
Dimensions, case	8.9 in x 7.0 in x 2.0 in.(226 x 178 x 50mm)
Display	2-line LCD, 16 char./line
Languages	English, German, French, Italian
Free span length, max.	30 ft. (10 m)
Belt density, max.	10 kg/m
Power supply	9-volt alkaline battery

The BTM-400 PLUS is supplied as a complete kit, including gauge, connecting cable, probe, traceable calibration certificate and operating manual in a foam-filled, carrying case.