



Belt Tension Meter PCE-BTM 2000



PCE-BTM 2000

The belt tension gauge is an optical measuring maintenance tool for determining belt tension force. This belt tension measuring device consists of a display unit and a sensor head which is attached to a gooseneck. The belt tension measuring device measures the belt tension and the belt frequency of the belt when it is stationary. A small impulse on the belt, vertical to the tension direction, is sufficient to set the belt vibrating. The belt tension measuring device measures the natural frequency of the belt with the sensor and visualizes it on the display. The belt tension gauge can directly determine the actual tension force of the belt from the belt frequency and the optionally entered belt length and belt mass. However, it is not absolutely necessary to enter this data in order to carry out measurements directly with the belt tension gauge. The measuring units can be switched between N (SI unit) and Pound Force (US unit) in the belt tension gauge. The graphic display of the belt tension gauge always shows the measured value as belt frequency in Hz. If the belt mass and length are entered in the device, the belt tension in Newton is also displayed. The intuitive graphic menu is visualized on the high-contrast display of the gauge in six selectable languages. For further analysis and quality assurance purposes, the belt tension gauge is equipped with a memory. Up to 750 data records can be stored in the memory of the belt tension gauge in 15 sets of 50 measured values.

The unit is delivered completely ready for use. The scope of delivery includes the handheld unit, the standard sensor with gooseneck, a magnetic holder, batteries and operating instructions. An instrument case, frequency beater, tripod and a measuring sensor with spiral cable and a longer gooseneck (for belts that are difficult to reach) are available as options for the drive belt tension meter.

- ▶ Measurement of the oscillation frequency of the drive belt
- ▶ Intuitive controls
- ▶ Calculation of the tension force
- ▶ Display of the belt tension in N
- ▶ 6 menu languages
- ▶ Memory for 750 measured values
- ▶ Sensor on gooseneck
- ▶ Input of belt length and belt mass



General Features PCE- BTM 2000

Measuring range	10 ... 900 Hz
Accuracy	± (1 % of rdg. + 4 digits)
Repeatability accuracy	± 1 Hz
Resolution	<100 Hz: 0.1 Hz >100 Hz: 1 Hz
Belt length	max. 9,999 m
Belt mass	max. 9,999 kg/m
Memory	750 measured values 15 sets of 50 measuring points
Menu languages	German, English, Spanish, French, Italian, Dutch
Power supply	3 x 1.5 V AAA batteries
Operating conditions	0 ... 50 °C / 32 ... 122 °F; max. 95 % R.H.
Storage conditions	-20 ... 65 °C / -4 ... 149 °C; max. 95 % R.H.
Dimensions	150 x 80 x 38 mm / 5.9 x 3.1 x 1.4"
Weight	ca. 200 g / 7 oz incl. batteries

Subject to change