

Force Gage PCE-BTM 2000-ICA incl. ISO Calibration Cert.



Force Gage for quick and accurate measurement of belt tension
Memory for 750 measured values / Graphic display / Easy operation
Measurement in Hz and N / incl. ISO Calibration Certificate

The force gauge / drive belt tension meter is an optical measuring device for determining the belt tensioning force. This belt tension meter consists of a display device and a sensor on a gooseneck. The belt tension meter measures the belt tension of the belt when it is stationary. A small impulse with the help of a mallet is enough to set the belt vibrating. The belt tension meter uses a sensor beam to record the natural frequency of the belt generated in this way and visualize it on the display. Furthermore, the belt tension meter can directly determine the tensioning force of the belt from this measurement data, as well as the entered belt length and belt mass. However, entering this data is not absolutely necessary in order to carry out measurements directly with the belt tension meter. The units of measurement can be switched between N (SI unit) and pound force (US unit) in the tension meter. The measured value is always shown in Hz on the graphic display of the drive belt tension meter. If the belt mass and length are entered in the device, the strand force is also displayed in Newtons. The intuitive graphic menu is visualized on the high-contrast display of the strand force measuring device in 6 selectable languages. The drive belt tension meter is equipped with a memory for further analysis and quality assurance purposes. In the memory of the belt tension meter, up to 750 data records can be stored in 15 folders with 50 measured values each.

The belt tension meter is delivered completely ready for use. The scope of delivery includes the hand-held device, the standard sensor with gooseneck, a magnetic holder, batteries and operating instructions. An instrument case, frequency mallet, tripod and a measuring sensor with a spiral cable and a longer gooseneck (for hard-to-reach belts) are available as options for the tension meter.

Why should the belt force be measured?

The measurement of belts is always necessary when machines and systems are to be optimally maintained. A belt drive only achieves its maximum service life if it is designed for use. This means that the belt is optimally tensioned and the pulleys are precisely aligned. With the help of the belt tension measuring device, the tensioning force can be precisely determined when the belt is stationary.

- ▶ 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
- ▶ **incl. ISO Calibration Certificate**

Subject to change

Specifications

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

More information

Manual



Software Manual



Datasheet



CE Certificate



More product info



Similar products



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