PCE-BTM 2000A

To measure the tension of V-belts or drive belts

The PCE-BTM 2000 is a measuring instrument to determine the tension of V-belts or drive belts. Belt tension can only be measured when the belt is not in operation. A small impulse with the help of a beater is enough to make the belt vibrate. With a measuring probe and a sensor beam, the generated vibration frequency is determined. The belt tension is calculated on the basis of the measuring data of the natural frequency as well as the belt mass and the length of the free belt span. It is not necessary to enter the belt mass and the belt length. The maximum service life of V-belts or drive belts can only be achieved with ideal tension.

ISO cal option

» measures vibration frequency of the belt
» intuitive operation
» calculation of belt tension (trum force)
» displays belt tension in N
» 6 menu languages
» memory for 750 readings
» sensor with gooseneck
» belt length and belt mass can be entered

APPLICATION
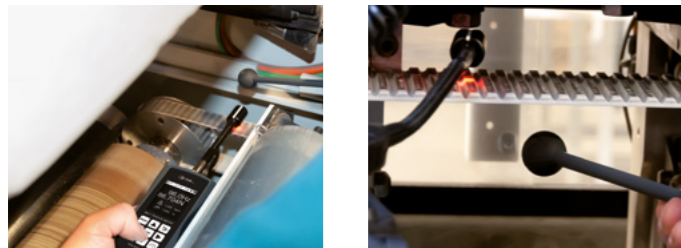
TECHNICAL SPECIFICATIONS

Measurement range	10 ... 900 Hz
Accuracy	±(1 % of rdg. + 4 digits)
Repeatability	±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 readings
	15 folders, 50 measuring points/folder
Menu languages	English, German, Spanish, French, Italian, Dutch
Power supply	3 x 1.5 V AAA battery
Operating conditions	0 ... 50 °C; max. 95 % RH
Storage conditions	-20 ... 65 °C; max. 95 % RH
Dimensions	150 x 80 x 38 mm
Weight	approx. 200 g incl. batteries

PCE-BTM 2000 SHS

PCE-MH