BELT TENSION METER

PCE-BTM 1000-ICA

- **Measurement of the belt's oscillation frequency**
- **Calculation of belt tension based on frequency**
- **Input of belt length, belt mass, belt width max. 999.9 mm**
- **Flexible gooseneck sensor for hard-to-reach areas**
- **Display in Hz or N**
- **Memory for 20 belt parameters**
- **Automatic switch-off after 5 minutes**
- **Acoustic measurement**
- **incl. ISO-Calibration Certificate**

The belt tension meter is used to precisely check the tension of belts in machines and systems, thereby ensuring optimum power transmission. This belt tension meter measures the oscillation frequency of the belt and immediately calculates the belt tension, which is displayed directly in newtons. The measuring range is between 10 and 680 Hz, with an accuracy of ±1 Hz for frequencies below 100 Hz and ±1% for frequencies above 100 Hz, with a total error of less than 5%.

Special features of the device include the flexible gooseneck sensor for hard-to-reach areas and the option to directly enter the belt length, belt mass and belt width (max. 999.9 mm), which makes the calculation of the belt tension particularly precise. The belt tension meter can be switched between displaying the oscillation frequency in Hz and the calculated belt tension in N.

Specification

Frequency	
Measurement range up to	10 ... 100 Hz
Resolution	0,1 Hz
Accuracy	±1 Hz

Frequency	
Measurement range up to	100 ... 680 Hz
Resolution	0,1 Hz
Accuracy	±1 %

General technical data	
Units	Hz, N
Display type	LCD
Display size	2,8 Inch
Storage medium	Internal memory
Storage capacity	20 Parameter
Automatic power-off	5 min
Dimensions	Probe: L 115 mm x ⌀13 mm
Belt length	9999 mm
Belt width	999,9 mm/R
Belt mass	999,9 g/m
Menu language	English, English (GB)
Protection class (device)	IP52
(Rechargeable) battery	3 x 1,5 V AA battery , Alkali-manganese
Capacity	2970 mAh
Operating conditions	10 ... 50 °C , 0 ... 95 % RH
Storage conditions	-5 ... 70 °C , 0 ... 95 % RH
Dimensions (L x W x H)	165 x 85 x 32 mm
Weight	230 g

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