



Image may differ from product. See technical specification for details.



## TKBT 10

### Belt tension meter

The belt tension meter is a portable and user-friendly instrument designed to ensure optimal belt performance and longevity. It enables precise measurement of belt natural frequency and belt tension in various belt types, including V-belts, toothed belts, ribbed belts, drive belts, and conveyor belts. With its flexible neck sensor and optional accessories, the instrument is ideal for use in belt maintenance tasks.

- Accurate measurement of belt tension in Hertz (Hz) and trum force in Newton (N) or pound-force (lbf)
- Flexible sensor neck allows access to confined spaces
- Optional accessories for enhanced usability (e.g., mallet, tripod, long gooseneck sensor)
- Stores up to 750 measurements across 15 folders
- Easy-to-use interface with multilingual support
- Zero-point calibration for improved accuracy

## Overview

### Dimensions

Instrument dimensions	150 x 80 x 38 mm
Probe lengths	145 mm (Short probe), ~900 mm (Long probe - Due to elastic coil, it can elongate more)
Case dimensions (l x h x w)	530 x 85 x 180 mm

### Properties

Recommended applications	Conveyor systems, HVAC systems, Textile machinery, Agricultural equipment.
Series	Belt tensioning
Measurement method	Measuring the natural frequency vibration of belt
Sensors	Optical measurement sensor
Measurement frequency	10 – 900 Hz
Resolution	<100 Hz: 0.1 Hz / >100 Hz: 1 Hz
Measuring error (percent)	1 %
Memory	750 memory positions (15 folders, 50 measurements each)
Battery	3 x 1.5 V AA (LR 6) batteries
Battery life	24 h
Software features	Multiple languages: English, German, Spanish, French, Italian, Dutch Zero-point calibration supported
Special features	Self calibration Optical sensor Measurement of both tension and vibration 750 memory positions
Alarms	None
Display	High contrast graphic Color LCD display, 55 x 43 mm
Auto switch off	Yes
Instrument weight	300 g
Housing material	Plastic
Colour	Blue Dark Grey
Degree of protection (IP)	IP 50
Operating temperature range	0 – 50 °C
Recommended storage temperature	-20 – 65 °C
Relative humidity	10 – 95% RH, non-condensing
Content	1x Belt tension meter 1x Short probe( TKBT 10-PS) 3x AA Batteries 1x QR code card 1x Carrying case (size X)

### Logistics

Product net weight	1.14 kg
eClass code	23-05-19-01
UNSPSC code	41112202

## Compatible products

### Spare part

Spare probe - short for Belt tension meter	<a href="#">TKBT 10-PS</a>
--	----------------------------

### Accessory

Accessory probe - long for Belt tension meter	<a href="#">TKBT 10-PL</a>
---	----------------------------

### Recommended product

Basic belt alignment, pulley side, red laser, 1 laser unit	<a href="#">TKBA 11</a>
Belt alignment, pulley side, red laser, 2 laser units	<a href="#">TKBA 21</a>
Belt alignment, pulley side, red laser, 2 laser units with belt measurement accessories	<a href="#">TKBA 31</a>
Belt alignment, pulley groove	<a href="#">TKBA 40</a>

Terms of use