



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	TKBT 10-PS
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Accessory

Accessory probe - long for Belt tension meter	TKBT 10-PL
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Recommended product

Basic belt alignment, pulley side, red laser, 1 laser unit	TKBA 11
Belt alignment, pulley side, red laser, 2 laser units	TKBA 21
Belt alignment, pulley side, red laser, 2 laser units with belt measurement accessories	TKBA 31
Belt alignment, pulley groove	TKBA 40



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