

CONTROL DEVICE FOR BELT TENSION



Experimental capabilities

- Learning to use a precision instrument for measuring the tension of the belts

Operating principle

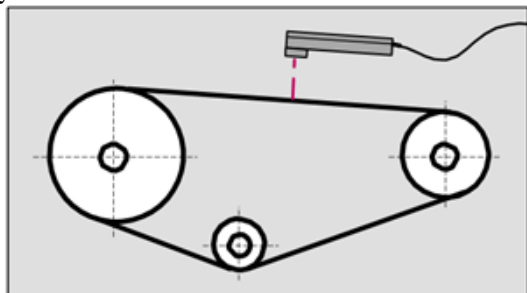
A drive belt reaches its maximum lifetime when it specifically configures for its application, the belt is perfectly tensioned and the pulleys are properly aligned. This instrument is an electronic measuring device which consists of a measuring probe and a microprocessor and is used to measure the belts tension and check the strength of the junction in a drive belt. The measurement result is shown in hertz, Newton or pounds force. This measured value can be compared with the nominal value - specified by the manufacturer of the drive belt (as a natural frequency in Hz or a junction force in N. Depending on the characteristics of the transmission.

Product features:

- Accurate measurement of the tension force of the belt
- Exact calculation of the junction's force
- Necessary for the registry in accordance with standard DIN EN ISO 9001ff
- It has an easy use and the measurement values are listed in 10 languages
- Compact and practical use

Illustrations

The distance between the drive belt and the probe of measurement should be between 3 and 20 mm. Preferably, the belt tension should always be measured in the center of the junction of the longest belt between the two transmission pulleys.



Technical details

Plage de mesure	10 – 800 Hz
Erreur d'échantillonnage digital	< 1%
Indication d'erreur	+/- 1 Hz
Erreur totale	< 5%
Temp. nominale	+20° C
Temp. de fonctionnement	+10° ... +50°
Temp. de transport	-5° ... +50°
Carcasse	Plastique (ABS)
Dimensions de l'unité	80 x 126 x 37
Dimensions de la boîte	226 x 178 x 50
Ecran	2-lignes LCD, 16 caractères/lin
Langues	10
Plage d'entrée:	
Longueur de l'embranchement de courroie libre	plus de 9.99 m
Masse de la courroie	plus de 9.999 kg/m
Alimentation	Batterie 9-V