

Belt Tension Meter BTM-1



Applying tension on belt drives – simple and precise

Service life of belt drives depend on several aspects.

Two of the most important factors are:

- Correct belt selection and dimensioning
- Proper belt installation and tensioning

To assure a correct dimensioning you can consult the **Habasit SeleCalc programs**.

To assure correct installation, Habasit provides the most helpful belt tension meter BTM-1. With just a view steps you can exactly determine the real belt tension and adjust if necessary.



Belt tension meter BTM-1

Our knowledge for your benefit

- Design with well assessed Habasit quality
- Integrated database with all Habasit power transmission and timing belts
- User defined belt types possible
- Customized belt with measurement of:
 - Belt strand frequency [Hz]
 - Belt tension [N]
 - Rotation speed [rpm]
- Bright and clearly visible light beam
- Shock absorbing case
- Robust probe with molded plug
- User-friendly operating system
- Background light
- Sensor calibration on check
- Outstanding value for money

Technical data	
Measurement range	1 – 500 Hz
Modulation	5 kHz
Sensor test	25 Hz with OK message
Readout error	+/- 0.3 Hz
Resolution	+/- 0.1 Hz
Operation temperature	-20 °C...+85 °C [-68 °F...+185 °F]
Storage temperature	-40 °C...+105 °C [-40 °F...+221 °F]
Humidity	20 – 95%
Housing	Plastic (PVC) IP10
Housing sensor	Plastic IP66
Housing dimensions WxHxD	75 x 115 x 35 mm [2.95 x 4.53 x 1.38 in]
Carrying-case dimensions	230 x 220 x 75 mm [9.06 x 8.66 x 2.95 in]
Display	2 line LCD 12 x 60 mm [0.47 x 2.36 in] with background illumination
Languages	English, French, German, Japanese
Input limits	Free belt strand: 30 – 9,999 mm
Input limits	Belt mass: 0.001 – 99.999 kg/m
No. of storage locations	255
Voltage supply	9 V alkaline battery, type E-Block 6LR61
Interface	RS232, DSUB9

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Headquarters
Habasit AG
CH-4153 Reinach-Basel
Phone +41 61 715 15 15
Fax +41 61 715 15 55
E-mail info@habasit.com
www.habasit.com



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