

69/90 Hatairat Rd., Minburi , Minburi Bangkok (Thailand) 10510



Tension Meter



8 Tension ranges available from 0 - 500 cN up to 0 - 100 daN

Tension Meter TSB2

Specifications

Calibration: According to SCHMIDT factory procedure

Accuracy: ±1 % full scale and ±1 digit

other calibration material: ±3 % full scale or better

Overload protection: 100 % of tension range Measuring principle: Strain gauge bridge

Measuring roller deflection:Max. 0.5 mm

Natural frequency: Approx. 500 Hz, depending on tension range

Signal processing: Analog

Temperature drift: Less than ±0.05 % full scale/°C

Output signal: Standard: $0 - 1 \text{ V DC (analog) impedance: } \ge 5 \text{ k}\Omega$

Option: 0 - 10 V DC (analog), 4 - 20 mA

(current) or mV/V (DMS)

Damping (fg): Standard: 30 Hz (other values on request)

Temperature range: 10-45 °C Air humidity: 85 % RH, max.

Power supply: +15...24 V DC, 21 mA regulated

Code A3: max. 50 mA regulated

Code A10: max. +5 V DC, max. 20 mA regulated

Housing material: Aluminium

Dimensions: See dimensions

Weight, net (gross): Up to model TS1-1000 approx. 250 g

(approx. 400 g)

models TS1-2000 up to TS1-10K approx. 280 g

(approx. 430 g)

models TS1-20K and TS1-50K approx. 330 $\ensuremath{\text{g}}$

(approx. 500 g)





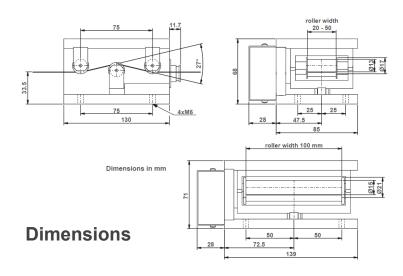


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Tension Meter

Tension Sensor Model TSB2-500 / TSB2-1000



Special Features

- Tension sensor TSB2 with integrated measuring amplifier and high accuracy of 1 % FS
- Various roller widths from 15 mm up to 100 mm, according to the application are available. The roller width should correspond with the width of the material to be measured
- Various output signals are available:
- analog: 0 1 V DC (standard), 0 10 V DC (optional)
- current: 4 20 mA (optional)
- analog DMS: mV/V (optional)
- Easy installation, even afterwards, on existing machines
- Easy calibration to customized material by operator zero and gain calibration is required
- Measuring principle load cell with high quality strain gauge bridge

Standard Features

- Tension sensor with zylindrical tape roller, ball-bearing mounted
- Tension sensor TSB2 with rugged aluminum housing
- Required power supply +15...24 V DC (regulated)
- Certificate of Compliance with the order 2.1 according EN 10204 is included
- Optionally available: Inspection Certificate 3.1 according EN 10204 with calibration report

Available Models

Model	Tension Range*	Roller Width
TSB2-500	0 – 500 cN	20, 30, 36, 41, 50, 100 mm
TSB2-1000	0 – 1000 cN	20, 30, 36, 41, 50, 100 mm
TSB2-2000	0 – 2000 cN	20, 30, 36, 41, 50, 100 mm
TSB2-5000	0 – 5000 cN	20, 30, 36, 41, 50, 100 mm
TSB2-10K	0 – 10 daN	15, 20, 30, 36, 41, 50, 100 mm
TSB2-20K	0 – 20 daN	15, 20, 30, 36, 41, 50, 100 mm
TSB2-50K	0 – 50 daN	15, 20, 30, 36, 41, 50, 100 mm
TSB2-100K	0 – 100 daN	15, 20, 30, 36, 41, 50, 100 mm

