



Stationary, electronic
TS Series



Online sensors for continuous measuring of low or high tensions of textile ribbons, films, foils, fiber bunches etc.

Model TSB1

8 Tension ranges from 0-100 cN to 0-20 daN

Max. width of material to be measured 30 mm



Model TSB1-500-20

Version with 20 mm tape rollers

Special features:

- + Dual-flanged outer guide rollers with various widths, from 7 mm to 30 mm
- + The roller width should correspond with the width of the material to be measured.
- Apart from that the instrument relates to model TS1

Available Models

MODEL	Tension Ranges* cN	Measuring Head Width** mm	Roller Widths mm
TSB1-100	0-100	60	7, 10, 15, 20
TSB1-200	0-200	60	7, 10, 15, 20
TSB1-500	0-500	60	7, 10, 15, 20
TSB1-1000	0-1000	60	7, 10, 15, 20, 30
TSB1-2000	0-2000	120	7, 10, 15, 20, 30
TSB1-5000	0-5000	120	7, 10, 15, 20, 30
TSB1-10K	0-10 daN	120	7, 10, 15, 20
TSB1-20K	0-20 daN	220	7, 10, 15, 20

Other tension ranges and measuring head widths available on request.

Other units of measure available – g or kg.

* SCHMIDT calibration material textile ribbon or film, depending on tension range and roller width

** Outside dimensions of front plate

Guide Rollers

Line Speed
v_{max} ... m/min
Roller Material

Standard	1000	Hard-coated aluminum, 13 mm Ø (Exception: 7 mm rollers are made of nickel-plated steel)
----------	------	---

Other roller materials (nickel-plated steel or plastic), as well as special coatings (anti adhesive or carbon fibres - NAV optimized) are available on request.

Special calibration using customer supplied samples is available Please supply a sample of at least 5 m in length.

Output Signal

Power Supply

Specifications

Models TSB1 and TSB2 same as Model TS1 (see page D2 and D14)

1st
IN TENSION
METERS
WORLDWIDE®

Model TSB2

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

Cylindrical rollers with special supports for higher tension ranges



Model TSB2-50K-50

Version with 50 mm tape rollers

This model is custom-built to your specific application requirements.

Please submit the following details:

- Description of application
- Expected tension range
- Kind and dimensions of the material to be measured

Available Models

MODEL	Tension Ranges* cN	Roller Widths mm
TSB2-500	0-500	20, 30, 36, 41, 50, 100
TSB2-1000	0-1000	20, 30, 36, 41, 50, 100
TSB2-2000	0-2000	20, 30, 36, 41, 50, 100
TSB2-5000	0-5000	20, 30, 36, 41, 50, 100
TSB2-10K	0-10 daN	15, 20, 30, 36, 41, 50, 100
TSB2-20K	0-20 daN	15, 20, 30, 36, 41, 50, 100
TSB2-50K	0-50 daN	15, 20, 30, 36, 41, 50, 100
TSB2-100K	0-100 daN	15, 20, 30, 36, 41, 50, 100

Other tension ranges available on request.

Other units of measure available – g or kg.

* SCHMIDT calibration material textile ribbon or film, depending on tension range and roller width

→ see page E →