

Stationary tension meters for continuous tension measurement applications

Special features:

- + Easy online mounting with screws
- + User-set MIN and MAX limits alert operator to out-of-tolerance conditions
(This feature is not available for Model Q)

Note: Stationary tension meters do not include a filament guide and material thickness compensator

Models Q, MK, DX2S

Guide Rollers

Models Q, MK

V-grooved

	Line Speed v_{max} ... m/min	Roller Material
Standard	1000	Hardcoated aluminium
Code T	1000	Plastic (POM) black
Code W	1000	Nickel-plated steel (Model -100 and higher)

→ see page F →

Model DX2S

V-grooved

Standard	2000	Hardcoated aluminium
Code K	3500	Hardcoated aluminium
Code H	5000	Plasma-coated aluminium (for Model DX2S-120 and higher ranges)
Code T	1000	Plastic (POM) black
Code W	1000	Nickel-plated steel
Code ST	1000	Hardened steel
Code B	1000	Tempered steel for tire cord
Code CE 1	1000	Ceramic
Code ASY	1000	Hardcoated aluminium
Code ASYB	1000	Tempered steel for tire cord
asymmetrical groove		(for Model DX2S-120 and higher ranges)

U-grooved

Code U	2000	Hardcoated aluminium
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Optional Accessories

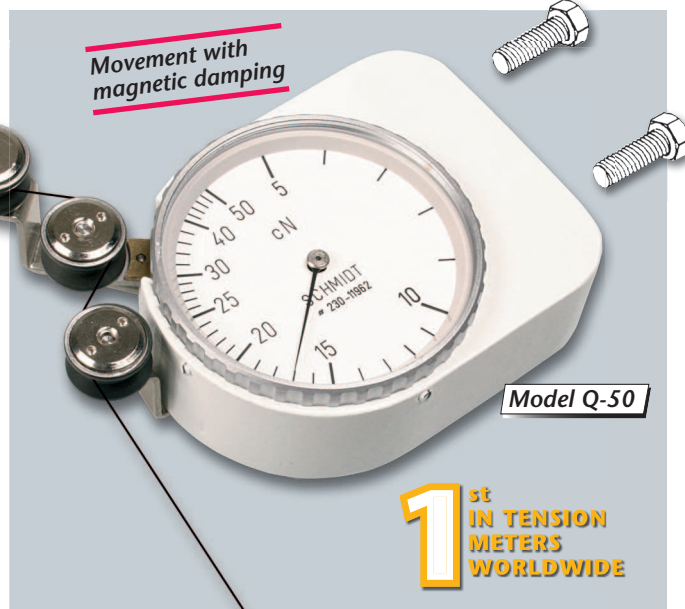
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Models MK, DX2S

Code A	Air damping MK: Model MK-100 and higher ranges DX2S: Models DX2S-120 to -5000 only
Code D	Tension-detecting screw contacts Adjustable MIN and MAX contacts trigger a signal, as soon as MIN or MAX tension value is reached

Model Q

Tension meter with large, easy
to read scale (54 mm Ø)



Available Models

MODEL	Tension Ranges cN	Measuring Head Width* mm	SCHMIDT Calibration Material**
Q-10	2 - 10	65	PA: 0.12 mm Ø
Q-20	2 - 20	65	PA: 0.12 mm Ø
Q-30	3 - 30	65	PA: 0.12 mm Ø
Q-50	5 - 50	65	PA: 0.12 mm Ø
Q-100	10 - 100	65	PA: 0.12 mm Ø
Q-200	20 - 200	65	PA: 0.12 mm Ø
Q-300	20 - 300	65	PA: 0.20 mm Ø
Q-500	50 - 500	85	PA: 0.20 mm Ø
Q-1000	50 - 1000	85	PA: 0.30 mm Ø

Other tension ranges available on request. Other units of measure available, such as g.

* Outer distance between outside guide rollers

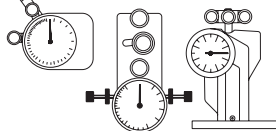
** SCHMIDT calibration material Polyamide Monofilament PA (see chart on page 9)

Specifications

Q Series

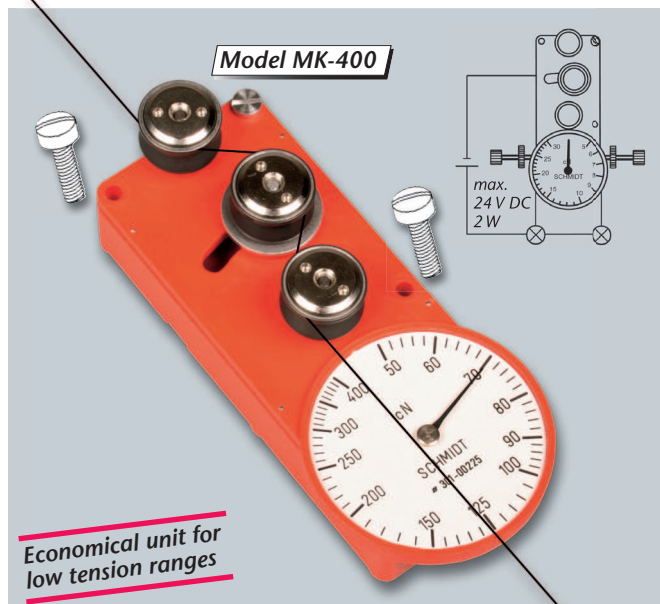
Calibration:	According to SCHMIDT factory procedure
Accuracy:	±1 % full scale (FS) or ±1 graduation on scale
Scale diameter:	54 mm
Temperature range:	10 - 45 °C
Air humidity:	85 % RH, max.
Housing material:	Chill-cast aluminium
Housing dimensions:	78 x 62 x 27 mm (L x W x H)
Weight, net (gross):	approx. 300 g (400 g)

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



Model MK

Small, compact and easy to install measuring instrument



Economical unit for low tension ranges

Available Models	Tension Ranges	Measuring Head Width*	SCHMIDT Calibration Material**
MODEL	cN	mm	
MK-12	3 - 12	56	PA: 0.12 mm Ø
MK-20	5 - 20	56	PA: 0.12 mm Ø
MK-30	5 - 30	56	PA: 0.12 mm Ø
MK-50	10 - 50	56	PA: 0.12 mm Ø
MK-100	10 - 100	56	PA: 0.12 mm Ø
MK-250	20 - 250	56	PA: 0.12 mm Ø
MK-300	20 - 300	56	PA: 0.20 mm Ø
MK-400	50 - 400	56	PA: 0.20 mm Ø

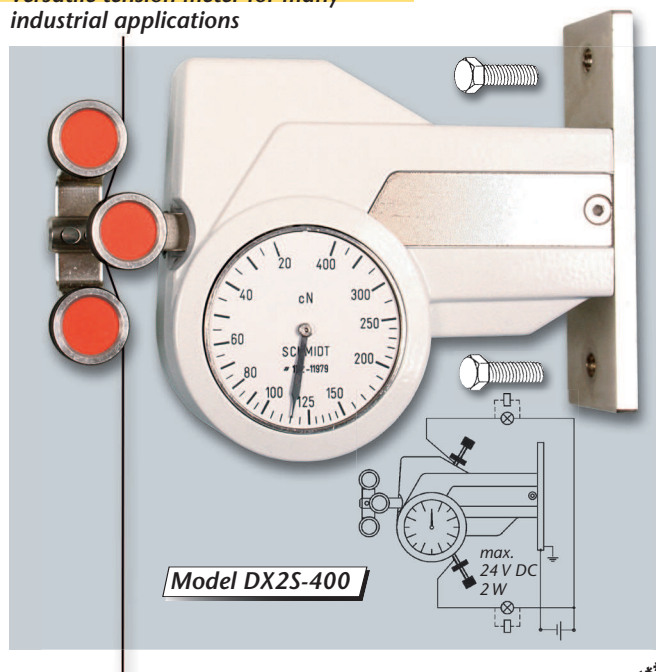
Other tension ranges available on request. Other units of measure available, such as g. SCHMIDT calibration material Polyamide Monofilament PA (see chart on page 9)

Specifications MK Series

Calibration:	According to SCHMIDT factory procedure
Accuracy:	±1 % full scale (FS) or ±1 graduation on scale
Scale diameter:	41 mm
Temperature range:	10 - 45 °C
Air humidity:	85 % RH, max.
Housing material:	Plastic (Makrolon)
Housing dimensions:	96 x 44 x 23 mm (LxWxH)
Weight, net (gross):	approx. 80 g (200 g)

Model DX2S

Versatile tension meter for many industrial applications



Available Models	Tension Ranges	Measuring Head Width*	SCHMIDT Calibration Material**
MODEL	cN	mm	
DX2S-50	10 - 50	54	PA: 0.12 mm Ø
DX2S-120	20 - 120	54	PA: 0.12 mm Ø
DX2S-200	20 - 200	54	PA: 0.12 mm Ø
DX2S-400	20 - 400	54	PA: 0.20 mm Ø
DX2S-1000	50 - 1000	54	PA: 0.30 mm Ø
DX2S-2000	200 - 2000	116	PA: 0.50 mm Ø
DX2S-5000	400 - 5000	116	PA: 0.80 mm Ø
DX2S-8000	1000 - 8000	116	PA: 1.00 mm Ø
DX2S-10 K	2.5 - 10 daN	116	PA: 1.00 mm Ø
DX2S-20 K	5 - 20 daN	216	PA: 1.50 mm Ø

Other tension ranges, measuring head widths, and material path calibrations available on request. Other units of measure available – g or kg.

* Outer distance between outside guide rollers

** Suitable for 95 % of applications (see also chart on page 9)

PA = Polyamide Monofilament

Specifications same as Model DX2 (see page A4)

The following models of the DX series are available as stationary models for fixed installation:

Model DXE → Model DXES Model DXF → Model DXFS
Model DXB → Model DXBS Model DXT → Model DXTS

