



Universal tension meter for a variety of applications
in the textile and wire industries



Model ZED-500
Actual size

With bigger rollers
for universal use

1st IN TENSION
METERS
WORLDWIDE®

Specifications

Model ZEF and ZED

Calibration:	SCHMIDT factory procedure
Accuracy:	± 1 % FS* and ± 1 digit, typical ± 0.5 % FS*
Overrange (approx.):	10 % FS*, without accuracy guarantee
Overload protection:	100 % FS*
Measuring principle:	Strain gauge bridge
Measuring roller deflection:	0.5 mm max.
Display:	3-digit LCD, 10 mm high Model ZEF-50, ZEF-100: 3½-digit LCD
Display update rate:	2 times / sec
Damping:	Selectable electronic damping (moving averaging)
Signal processing:	digital
Temperature range:	10 - 45 °C
Air humidity:	85 % RH, max.
Power supply:	LiPo accumulator (about 80 h continuous use, charging time approx. 3 ½ h) and AC Adapter with adapters (EU/USA/UK)
Housing material:	Plastic (POM)
Housing dimensions:	157 x 85 x 32 mm (L x W x H)
Weight, net (gross):	approx. 200 g (600 g)

* FS = Full Scale

Model ZED

Available Models

MODEL	Tension Range CN	Measuring Head Width* mm	SCHMIDT Calibration Material**
ZED-200	1 - 200	63	PA: 0.20 mm Ø
ZED-500	1 - 500	63	PA: 0.20 mm Ø

* Width of filament guide

** Suitable for 95 % of applications (see also chart on page 11)
PA = Polyamide Monofilament

Guide Rollers

V-grooved	Line Speed v _{max} ... m/min	Roller Material
Standard	2000	Hard-coated aluminium
Code K	3500	Hard-coated aluminium
Code H	5000	Plasma-coated aluminium
Code T	1000	Plastic (POM) black
Code W	1000	Nickel-plated steel
Code CE2	1000	Aluminium ceramic-coated

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

To place an order
please indicate the complete model number, e.g.:

Model with tension range
Code for guide rollers
(if not standard)
Complete Order No.

ZEF-200 + **K** = **ZEF-200-K**