CHECKLINE®
MADE TO MEASURE

ZED Series Digital Tension Meter

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

Standard features:

- Everything in operator's view:
  – the guide rollers
  – the measured material
  – the readings
- Ball-bearing mounted, V-grooved guide rollers
- Housing made of high-strength plastic
- CE proofed, interference resistance about static charge
- Inspection Certificate with Calibration Report optionally available

1st IN TENSION METERS WORLDWIDE®

With bigger rollers for universal use

CE

Model ZED-200

Specifications — Model ZEF and ZED

Calibration:	According to SCHMIDT factory procedure
Accuracy:	± 1 % FS* and ± 1 Digit typical ± 0.5 % FS*
Units	cN, g, N or lb, switchable
Overrange (approx.):	10 % FS*, without accuracy guarantee
Overload protection:	200 % FS*
Measuring principle:	Strain gauge bridge
Measuring roller deflection:	0.5 mm max.
Damping:	Adjustable electronic damping (Moving averaging)
Sampling rate internal:	Approx. 1 kHz
Sampling rate:	250 Hz (250 readings / sec)
Display update time:	2 times / sec
Display:	Colour-TFT 128 x 160
3 display modes:	Numeric / Numeric + bargraph / Numeric + graph (time-tension)
Memory:	Last, AVG, MIN, MAX, STD
Temperature range:	10 - 45 ºC
Air humidity:	85 % RH, max.
Power supply:	LiPo accumulator (about 25 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 130 x 33 mm (L x W x H)
Weight, net (gross):	Approx. 200 g (600 g)

* FS = Full Scale

Model ZED

Available Models

MODEL	Tension Range g/cN	Measuring Head Width* mm	Calibration Material**
ZED-200	1 - 200.0	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

→ see page G →

V-grooved	Line Speed vmax. ... 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

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