



Select Language ▼

You're here:

- [Products](#) »
- [Tension Meter](#) »
- [Hand-Held, electronic](#) »
- [ZE Series](#) »
- [Model ZED](#)

Tension Meter ZED

2 tension ranges from 1 - 200 cN up to 1 - 500 cN

Cost-efficient electronic tension meter for measuring low tensions of fibres, threads and fine wires
Tension meter with large guide rollers

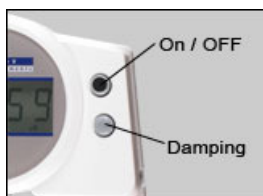
This universal tension meter, can also be used at wire EDM machines



Tension meter ZED 

Special Features

- Automatic »Zero Setting« independent to measuring position
- Adjustable electronic damping for better reading when tension is constantly changing



- Easy to read LCD display
- Filament guide and roller shifting mechanism ensure easy acquisition of the running material
- Easy operation
- Light weight hand-held unit
- Tension meter for battery operation (LiPo accumulator with long runtime and short charging time)

Standard Features

- Everything in operator's view:

- the guide rollers
- the measuring material
- the readings
- Ball-bearing mounted, V-grooved guide rollers
- Tension meter with high-strength plastic housing
- 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

Wire EDM Information

Click pictures

to get more information
about wire EDM machines

Available Models

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

Other units of measure are available, such as g.

* Width of filament guide

** Suitable for 95 % of applications - PA = Polyamide Monofilament

Calibration to customized material:

If process material differs significantly from the SCHMIDT calibration material in diameter, rigidity or shape, special calibration using customer supplied samples is recommended. For this purpose a material sample of about 5 m should be supplied.

Guide Rollers

Order-Code	Line Speed		Roller Material
	v_{max}	...m/min	
Standard	2000		Hardcoated aluminium
<u>Code K</u>	3500		Hardcoated aluminium
<u>Code H</u>	5000		Plasma-coated aluminium
<u>Code T</u>	1000		Plastic (POM) black
<u>Code W</u>	1000		Nickel-plated steel
<u>Code CE2</u>	1000		Aluminium ceramic-coated

Click the order-code, to get picture and drawing of the guide rollers

Spare Rollers

Click picture to get an
overview for the guide rollers

Spare Parts

Mains Adapter

with 3 adapters (EU/USA/UK) for worldwide use,
100 - 240 V AC
Order number: K50205

[Click picture](#) for more information

Calibration Report (optional)

Inspection Certificate 3.1 according DIN EN 10204
including a calibration report is optional available

[Click picture](#) for more information

Ordering Example

To place an order	Model with tension range		Code for guide rollers (if not standard)		Complete Order No.
Please indicate the complete order number, e. g.:	ZED-500	+	K	=	ZED-500-K

Delivery Includes

Tension meter with carrying case, mains adapter with 3 country adapters (EU/USA/UK), operating instruction in german or english (as requested), Certificate of Compliance with the order 2.1 according EN 10204 free of charge

Dimensions

For PDF-file please
[click picture](#)

Specifications

Calibration:	According SCHMIDT factory procedure
Accuracy:	±1 % full scale ±1 digit or better typical ±0.5 % full scale
Overrange:	Approx. 10 % full scale, without accuracy guarantee
Overload protection:	100 % full scale
Measuring principle:	Strain gauge bridge
Measuring roller deflection:	Max. 0.5 mm

Damping:	Adjustable electronic damping (15 value), averaging
A/D converter:	12 bit
Signal processing:	Digital
Display:	LCD 3 digit, 11 mm high
Display update rate:	2 times per second
Self-frequency:	250 Hz
Auto power off	After 3 minutes of non-use
Temperature range:	10 - 45 °C
Air humidity:	85 % RH, max.
Power supply:	LiPo accumulator (approx. 80 H continuous use, charging time approx. 3.5 h) and AC adapter 100...240 V AC with adapters (EU/USA/UK)
Housing material:	Plastic (POM)
Dimension:	See dimensions above
Weight, net (gross):	Approx. 200 g (approx. 600 g)

Specifications subject to change without notice!

- [Contact](#) |
- [Imprint](#) |
- [Sitemap](#)

HANS SCHMIDT & CO GMBH | Schichtstraße 16 | 84478 Waldkraiburg / Germany | Tel.: + 49 (0)8638 9410-0 | Fax: + 49 (0)8638 4825