

TENSIONMETER

**** code 1837 ****

2 tension ranges from 1 - 200 cN up to 1 - 500 cN. Cost-efficient electronic tension meter for measuring low tensions of fibers, threads and fine wires. Tension meter with large guide rollers.

- 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.



Available models

MESDAN	Model	Tension Range	Resolution	Measuring Head Width*	Calibration Material**
Code		cN	cN	mm	
	ZED-200	1 - 200	1 cN	63	PA: 0.20 mm Ø
1837	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

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Calibration to customized material:

If process material differs significantly from the 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.

	Line speed Vmax m/min	Roller material
Standard	2000	Hardcoated aluminium (<i>R10003</i>)
Code K	3500	Hardcoated aluminium
Code H	5000	Plasma-coated aluminium
Code T	450	Plastic (POM) black
Code W	450	Nickel-plated steel



Mains adapter

With 3 adapters (EU/USA/UK) for worldwide use,
100 - 240 V AC



Calibration report

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



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

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Specifications

Calibration:	According 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)
Housing dimension:	157 x 85 x 32 mm (LxWxH)
Weight, net (gross):	Approx. 200 g (approx. 600 g)
Autozero:	± 20 % full scale
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