TENSIONETER ** code 1836 A **

3 tension ranges from 0.5 - 50 cN to 1 - 200 cN. Cost-efficient electronic tension meter for measuring low tensions for measuring fibers and threads up to 200 tex, fine wires Ø 0.16 mm. Hand-held device with slim filament guide and small guide rollers groove Ø 7.4 mm for limited access space, Handy, light weight tension meter with digital display for precision measurements.



Special Features

- Tension meter ZEF with easy to read LCD display.

- Automatic **»Zero Setting**« to zero the instrument in any measuring position.

- Adjustable electronic damping for better reading when tension is constantly fluctuating.
- Slim filament guide with small guide rollers ideal for limited access space.
- Simple, trouble free operation.

- Filament guide and unique roller shifting mechanism ensure easy acquisition of the running material.

- Light weight hand-held unit.

- Powered by rechargeable Lithium Polymer battery (80 h battery life with 3.5 h charge time) with a universal voltage AC-charger.



Tensiometer with smooth running plastic rollers code **T** for measuring spandex (Lycra) filaments.

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.
- CE approved (tested for electromagnetic compatibility).
- Certificate of Compliance with the order 2.1 according EN 10204 is included.

*Photographs and descriptions of the present leaflet have to be considered as purely indicative and not binding. *Le immagini e le descrizioni del presente catalogo sono da ritenersi puramente indicative e non vincolanti.



TENSIOMETER

** code 1836_A **

- 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	
	ZEF-50	0.5 - 50.0	0.1 cN	43	PA: 0.12 mm Ø
1836	ZEF-100	0.5 - 100.0	0.1 cN	43	PA: 0.12 mm Ø
1836A	ZEF-200	1 - 200	1 cN	43	PA: 0.12 mm Ø

Other units of measure are available, such as g. * Width of filament guide. **Suitable for 95 % of applications - PA = Polyamide Monofilament

Guide rollers

Guide rollers	Line speed	Roller material
	Vmax m/min	
Standard	900	Hard coated aluminium
Code K	2000	Hard coated aluminium
Code T	450	Plastic (POM) black
Code W	450	Nickel-plated steel

Standard accessories



USB AC adapter with 4 adapters (EU/USA/UK/AUS-NZ) for 100 – 240 Vac and charging cable for loading the accumulator.

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MESDAN S.p.A. - Via Masserino, 6 25080 Puegnago del Garda (BS) - Italy Phone +39 0365 653142 Fax +39 0365 651011 sales@mesdan.it-www.mesdan.com





Delivery includes

Tension meter ZEF with carrying case, USB AC adapter with 4 adapters (EU/USA/UK/AUS-NZ), charging cable, operating instruction in German or English (as requested), Certificate of Compliance with the order 2.1 according EN 10204 free of charge.

Specifications Calibration: According to factory procedure ± 1 % full scale ± 1 digit or better typical ± 0.5 % full scale Accuracy: **Overrange:** Approx. 10 % full scale, without accuracy guarantee **Overload protection:** 100 % full scale Measuring principle: Strain gauge bridge Measuring roller Max. 0.5 mm deflection: Damping: Adjustable electronic damping (15 values), averaging A/D converter: 12 bit Signal processing: Digital LCD 3 digit, 11 mm high, ZEF-100 3 1/2 digit **Display:** 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. LiPo accumulator (approx. 80 h continuous use, charging time approx. 3.5 h). Power supply: USB AC adapter 100...240 V AC with 4 adapters (EU/USA/UK/AUS-NZ) Housing material: Plastic (POM) **Dimensions:** 124(W) x 32(D) x 157(H) mm Weight, net (gross): Approx. 200 g (approx. 600 g) *Photographs and descriptions of the present leaflet have to be considered as purely indicative and not binding. *Le immagini e le descrizioni del presente catalogo sono da ritenersi puramente indicative e non vincolanti.

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