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FANYUAN INSTRUMENT (HF) CO., LTD.
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DTM SERIES DIGITAL TENSION METER



MODEL NO.

DTM series

APPLICATION

This machine use to determine the tension of moving or static yarn, fine wire, plastic thread. Three long and closely-spaced slender shafts with precision guide rollers, and the end of the middle slender shaft combine with the latest microprocessor technology to make this instrument top choice for tension measuring applications.

This meter widely used throughout the world in many different industries, such as man-made fiber industries, cotton textile industries, knitting industries, optical fiber industries, the wire industries, etc.

RELATED STANDARDS

STANDARDS		

Note: this tester can conform to but not limit to the standards above, for more standards conformance, please contact us.

FEATURES

- Aluminum profile with Aluminum outer casing.
- Three long and closely-spaced slender shafts with precision guide rollers, and the end of the middle slender shaft combine with the latest microprocessor technology.
- Employ a strain-gauge system for accurately perceive and record the tension change.
- Adjustable damping (10 steps) for easier readings when tension fluctuates,
- The large LCD display (4-digit) shows dynamic tension values calculated during the update, and can reach to accuracy of 0.1cN.
- Automatically power off after about 3 minutes of non-operation.



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MODEL SELECTION

Mode	DTM50 DTM100 DTM200 DTM300 DTM500		DTM500 DTM1000 DTM2000	
Guide roller	Ceramic pole		V-groove	
	Standard width	Dilated	Solidified aluminum	Stainless steel
Max wire speed	6000m/min		900m/min	450m/min
Tension range	0~500cN	500~1000cN	0~500cN	500~2000cN
Application	Fine wire, yarn, plastic wire		Wire, plastic thread	

KEY SPECIFICATIONS

Tension range	0-50,100,200,300,500cN	0-500,1000,2000cN
Accuracy	0.1cN	1cN
Over range	Approx. 10% full scale, without accuracy guarantee	
Overload protection	150% of tension range	
Sampling rate	Approx.5 kHz(internal only)	
Display update rate	Approx.4 times/sec	
Measuring deflection	0.5mm max.	
Temperature range	10~45℃	
Air humidity	85% RH, max	
Instrument dimensions	220×52×46mm(L×W×H)	
Box dimensions	350×270×80mm(L×W×H)	
Weight, net (gross)	Approx. 500g (1020g)	
Power supply	Alkaline Battery(2×AA, about 50h of continuous use)	

STANDARD CONFIGURATION

No.	Item	Quantity
1	Main machine	1set



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2	Instrument Box	1set
3	Battery	2×AA

OPTIONAL ACCESSORIES

No.	Item
1	
2	