

AMITTARI INSTRUMENTS

Digital Tension Meter LTMS

Product Description

The LTMS Digital Tension Meter is a hand-held device which accurately measures the running as well as static tensions of a wide variety of process materials including yarns, fibers, wires, optical fibers, etc.

Product Feature

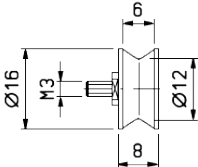
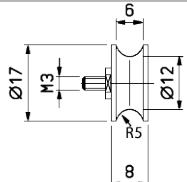
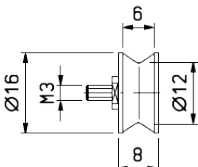
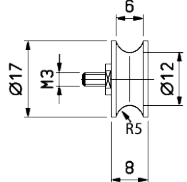
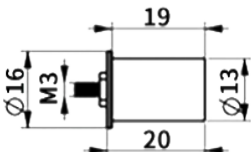
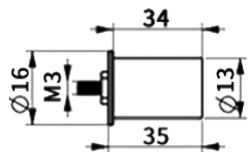
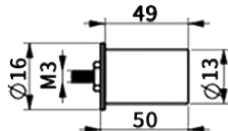
- * It employs the "three-roller principle" of tension measurement.
- * High accuracy and high resolution. Digital display with no guessing or errors.
- * With 4 measurement unit for selection and conversion, N, kg, lb, g.
- * Current Value, Max. Value, Peak Value, Min Value can be displayed at the same time.
- * With 10 minutes auto power off and manual power off.
- * The Meter takes 62 tension measurements per second and displays the average of these measurements over a user-selected interval of 0.5, 1.0, 2.0 or 4.0 seconds, the Display Update Rate.
- * Optional data output function. Measurement data can be transmitted to computer by USB cable or Bluetooth adapter for various analysis.



Product Parameters

Model	LTMS-200	LTMS-500	LTMS-1K	LTMS-2K	LTMS-5K	LTMS-10K	LTMS-20K	LTMS-50K
Tension Range	0~0.2kgf	0~0.5kgf	0~1.0kgf	0~2.0kgf	0~5.0kgf	0~10.0kgf	0~20.0kgf	0~50.0kgf
	0~200gf	0~500gf	0~1000gf	0~2000gf	0~5000gf			
	0~1.96N	0~4.9N	0~9.8N	0~19.6N	0~49N	0~98N	0~196N	0~490N
	0~0.44Lbf	0~1.1Lbf	0~2.2Lbf	0~4.4Lbf	0~11Lbf	0~22Lbf	0~44Lbf	0~110Lbf
Resolution	0.001kgf	0.001kgf	0.001kgf	0.001kgf	0.01kgf	0.01kgf	0.01kgf	0.01kgf
	1gf	1gf	1gf	1gf	1gf			
	0.001N	0.001N	0.001N	0.01N	0.1N	0.1N	0.1N	0.1N
	0.001Lbf	0.001Lbf	0.001Lbf	0.001Lbf	0.01Lbf	0.1Lbf	0.1Lbf	0.1Lbf
Accuracy	±1.0% or better		±1.5% or better					
Gear spacing	52mm				105mm		210mm	
Unit	kgf, gf, N, Lbf							
Measuring Principle	Strain gauge							
Measuring Frequency	16 msec (62.5 samples/sec)							
Sensing Roller	Deflection of Sensing Roller (max.) 0.2mm							
Overload Capacity	150% of Full Scale							
Temperature Coefficient	Zero: less than +0.3% FS/°C Span: less than +0.01% FS/°C							
Display	Blue Back light LCD							
Display Update Rate	0.5, 1.0, 2.0 or 4.0 seconds, dip-switch selectable							
Memory System	Current Value, Max. Value, Peak Value, Min Value							
Overrange Indicator	Buzzer Alarm							
Power Off	10 Minutes Auto Power Off, Manual Power Off							
Data Output	USB, Bluetooth (Optional)							
Roller Material	Stainless Steel (Standard)							
	Plastic (Optional)							
Maximum Speed	2000m/min							
Power Supply	4x1.5 AAA(UM-4) Battery							
Operation Temperature	0~40°C							
Operation Humidity	<80%							
Weight	400g							
Size	Main Unit: 149x70x30mm Sensor: 102x81x34mm							

Line tensiometer accessories reference

Image	size	configuration
 SUS1201		standard configuration Standard Roller
 SUS1205		option configuration Standard Roller
 POM1201		option configuration Plastic Roller
 POM1205		option configuration Plastic Roller
 TR1320		option configuration Tape Roller
 TR1335		option configuration Tape Roller
 TR1350		option configuration Tape Roller