Digital Tension Meter

LTTS

Model: LTTS

Applications & Features

The LTTS 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.
* It employs the 'three-roller principle' of tension test.
* High accuracy and high resolution.
* Digital display with no guessing or errors.
* Power is supplied by 4xAAA alkaline battery.
* With 4 measurement unit for selection, 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.
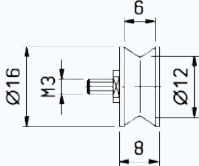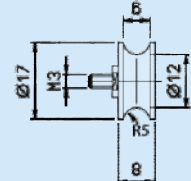* With data output, by USB cable or Bluetooth adapter.

General Specifications
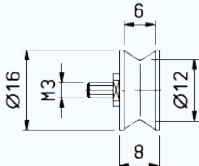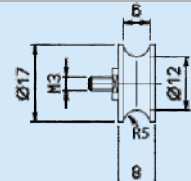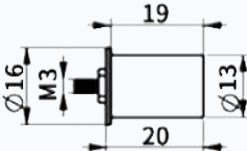
Unit	kgf, gf, N, Lbf
Measuring Principle	Strain gauge
Measuring Frequency	16 msec (62.5 samples/sec)
Sensing Roller	Deflection of Sensing Roller (max.) 0.2mm
Overload Capacity	150% of Full Scale
Temperature Coefficient	Zero: less than +0.3% FS/°C
	Span: less than +0.01% FS/°C
Display	Blue Back light LCD
Display Update Rate	0.5, 1.0, 2.0 or 4.0 seconds, selectable
Memory System	Current Value, Max. Value, Peak Value, Min Value
Overrange Indicator	Buzzer Alarm
Power Off	10 Minutes Auto, Manual
Data Output	USB, Bluetooth (Optional)

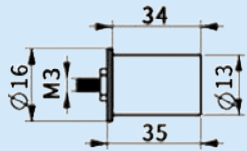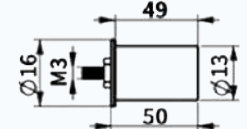| Roller Material	Stainless Steel (Standard)
	Plastic (Optional)
Maximum Speed	2000m/min
Power Supply	4x1.5 AAA(UM-4) Battery
Operation Temperature	0~40°C
Operation Humidity	<80%
Weight	400g
Size	Main Unit: 149x70x30mm
	Sensor: 102x81x34mm

Model Specifications

Model	LTTS-200	LTTS-500	LTTS-1K	LTTS-2K	LTTS-5K	LTTS-10K	LTTS-20K	LTTS-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	

Digital Tension Meter

Line tensiometer accessories reference		
Image	size	configuration
SUS1201	6 Ø16 M3 Ø12 8	standard configuration Standard Roller
SUS1205	6 Ø17 M3 Ø12 R5 8	opention configuration Standard Roller
POM1201	6 Ø16 M3 Ø12 8	opention configuration Plastic Roller
POM1205	6 Ø17 M3 Ø12 R5 8	opention configuration Plastic Roller
TR1320	19 Ø16 M3 Ø13 20	opention configuration Tape Roller
TR1335	34 Ø16 M3 Ø13 35	opention configuration Tape Roller
TR1350	49 Ø16 M3 Ø13 50	opention configuration Tape Roller