



**B.N.C.TOOLING Co.,Ltd.**

BNCTOOLING.COM  
BNCTOOLINGSHOP.COM

69/90 Hatairat Rd., Minburi ,Minburi Bangkok (Thailand) 10510

**SCHMIDT**  
control instruments

## Tension Meter



3 in 1 Tension: 0.5 - 100.0 cN

Speed: 1999 m/min

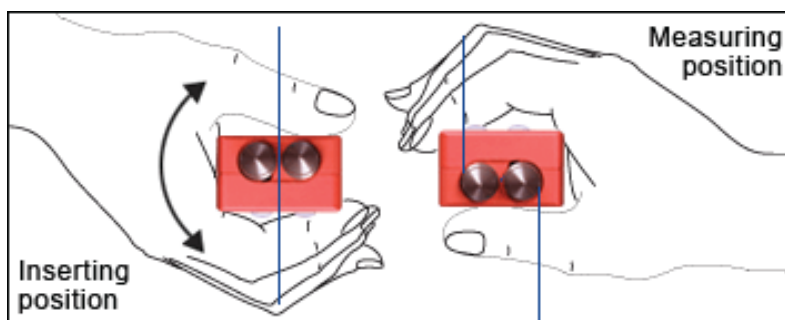
Length: 1999 m

For fibers up to 100 tex or 1000 denier

***Tension Meter PT-100-L***

### Specifications

Calibration:	According SCHMIDT factory procedure
Accuracy:	±1.5 % full scale ±1 digit
Length measuring:	±0.5 % and ±1 digit
Resolution:	Tension: 0.1 cN
Speed:	1m/min
Length:	1m
Overload protection:	200 % full scale
Measuring units:	cN, gr, m/min, in/min, m, in switchable
Measuring principle:	Strain gauge bridge
Damping:	Adjustable electronic damping, averaging
Display:	LCD 3 ½ digits, 9 mm high
Display update rate:	2 times per second
Auto power off:	After 3 minutes off non use
Temperature range:	10 – 45 °C
Air humidity:	85 % RH, max.
Power supply:	LiPo accumulator (approx. 40 h continuous use, charging time approx. 3.5 h), USB AC adapter 100 – 240 V AC with 4 adapters (EU/USA/UK/AUS-NZ)
Housing material:	Aluminium
Dimensions:	See dimensions
Weight, net (gross):	Approx. 170 g (ca. 500 g)



to insert the measuring material the instrument must be wrapped by 180 degrees



## Special Features

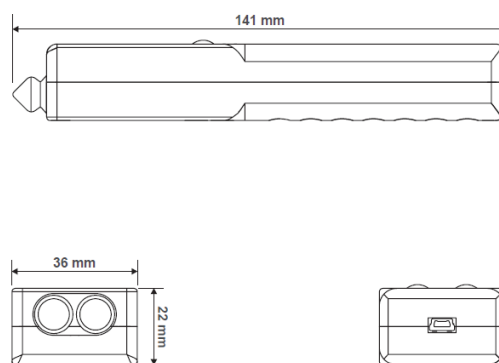
- »Multifunctional instrument:«
  - Tension Meter
  - Yarn Speed Meter
  - Yarn Length Meter to determine the yarn consumption of a single feeder for one or more machine cycles (max. 10 revolutions) of a circular knitting machine
- Tension meter PT-100-L with easy Slide-In material threading by cone shaped, ball-bearing mounted guide rollers and turning the instrument
- Length Measurement – 2 operating modes:
  - “Manual” (without external sensor):
    - The instrument measures as long as the operator is pressing the button
  - “Auto” (with “Reed” magnet Sensor):
    - Sensor and magnet are supplying a start/stop signal for a user-defined number of machine revolutions (1 – 10)
    - Automatic »zero setting« to zero the instrument in any measuring position
    - Adjustable electronic damping to provide steady tension readings
    - When the series of measurement ends, the average value can be displayed
- Tension meter PT-100-L for right and left hand use
- User-set measuring units of cN or grams
- Measuring head width 24 mm (outer distance of guide rollers)
- Powered by rechargeable lithium polymer battery (40 h battery life with 3.5 h charge time) with a universal voltage AC-charger

## Standard Features

- Tension meter with small, compact aluminium housing
- Easy one hand operation
- Tension meter with easy to read LCD display
- Each instrument is individually calibrated for highest accuracy
- CE proofed, interference resistance about static charge
- Certificate of compliance with the order 2.1 according DIN EN 10204 is included
- Optionally available: Inspection Certificate 3.1 according DIN EN 10204 with calibration report (tension only)

## Dimensions

### Tension Meter Model PT-100 and PT-100-L



## Available Models

Model	Measuring Range Tension	Measuring Range Speed	Measuring Range Length	SCHMIDT Calibration Material*
<b>PT-100-L</b>	0.5 – 100.0 cN	0 – 1999 m/min	0 – 1999 m/min	PA: 0.20 mm Ø
<b>alternative</b>				
<b>PT-100</b>	0.5 – 100.0 cN	—	—	PA: 0.20 mm Ø