MINI-TENS R - 048 with Interchangeable Measuring Heads

The ROTHCHILD MINI-TENS R - 048 instrument is a small, handy and yet a high precision Yarn Tensiometer weighing only 620 grs. The ROTHCHILD MEASURING SYSTEM is designed to measure the yarn tension without deflecting the yarn and to obtain a highly accurate yarn tension reading. Only 15 mm of free accessible yarn passages are required for measuring the yarn tension.

The MINI-TENS R - 048 is suitable for quick control measurements on all yarn- and fiber processing machines such as:
- OE Spinning machines
- Drawing machines
- Texturing machines
- Twisting machines
- Winding machines
- Warping machines, Knitting machines
- Looms
- Raschel looms
- Circular looms
- etc.

MINI-TENS R - 048 Handheld electronic yarn tensiometer of only 620 grs weight
- Reduced dimensions 240 x 200 x 50 mm
- Integrated circuit - solid state
- Digital readout (3 1/2 digits) in cN / pond / gram
- Integrated "HOLD" position for freezing the last measured yarn tension data.
- Mechanical overload protection up to 300 %
- Rotating measuring head (90°)
- Selftreading Yarn guides
- Maximum yarn deflection during measurements of only 0,1 mm
- Length of accessible yarn required for measurements:15 mm, ( Tapered end of measuring head ! )
- Signal - Exit 0 - 1 Volt
- Power supply: 9 Volt battery with a life-span of approx 18 months or 80'000 measurements,
- "Low Battery" indicator with a reserve for some 1'000 measurements
- Precision +/- 3 %
- Built-in calibration weights of 10 and 50 cN
- Measuring head protection against accidental drops, overload and false manipulation

Interchangeable MEASURING HEADS
- R-048/A 0 - 10 cN (minimal 0,02 cN)  
- R-048/C 0 - 100 cN (minimal 2 cN)  
- R-048/E 0 -1000 cN (minimal 20 cN)
- R-048/B 0 - 50 cN (minimal 1 cN)  
- R-048/D 0 -200 cN (minimal 4 cN)

Carrying case for protection during transport and measuring operations
MINI - TENS R - 048

Fadenspannungs-Messung mit MINI-TENS R - 048

Yarn-tension measurement with MINI - TENS R - 048

MINI - TENS R - 048
- mit abgenommenen Eichgewichten
- with detached calibration weights
(10 und / and 50 gr.)
1. Self-threading device
2. Nominal value of measuring head
3. Fixation screw for measuring head
4. Display
5. Calibration ring 10 grammes
6. Calibration ring 50 grammes
7. Zero potentiometer
8. Signal output (0-1 volt)
9. Calibration potentiometer
10. Sliding ring for permanent display
11. Pushbutton with double function
    1st) pressure point - measuring data
    2nd) pressure point - hold
12-15 Exchange measuring heads

1. Einfädel-Vorrichtung (Messkopfschutz)
2. Nenngrösse des Messkopfes
3. Fixierschraube für Messkopf
4. Messwert-Anzeige
5. Eichgewicht (Ring) 10 Gramm
6. Eichgewicht (Ring) 50 Gramm
7. Nullpunkt-Potentiometer
8. Signal-Ausgang (0-1 Volt)
9. Eich-Potentiometer
10. Überwurf-Ring für Daueranzeige
11. Einfach-Druck = Messwertanzeige
    Doppel-Druck = Hold
    Austausch Messköpfe