



# Measured Solutions, Inc.

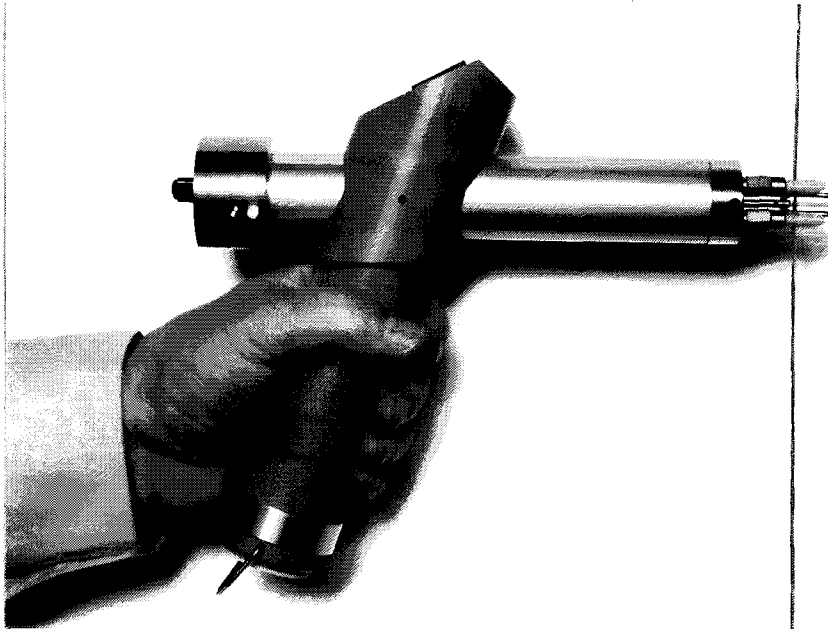
*Trusted Resource. Precise Results.*

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## MINI - TENS R - 0 4 8 HANDHELD ELECTRONIC TENSIOMETER with Interchangeable Measuring Heads

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### MINI-TENS R - 048 with Interchangeable Measuring Heads

The ROTHSCCHILD MINI-TENS R - 048 instrument is a small, handy and yet a high precision Yarn Tensiometer weighing only 620 grs. The ROTHSCCHILD 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°)
- Selfthreading 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/B 0 - 50 cN (minimal 1 cN) |
| - R-048/C 0 - 100 cN (minimal 2 cN)   | - R-048/D 0 -200 cN (minimal 4 cN) |
| - R-048/E 0 -1000 cN (minimal 20 cN)  |                                    |

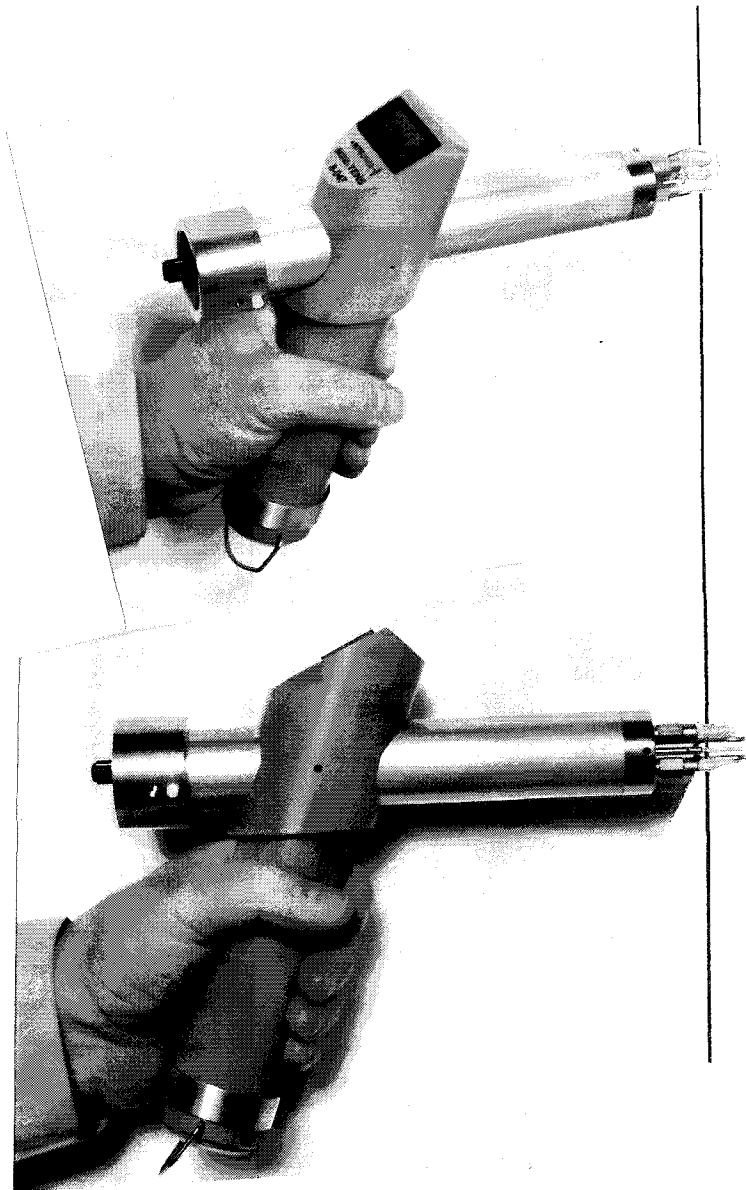
Carrying case for protection during transport and measuring operations

**ROTHSCHILD** →

Messinstrumente

8002 Zürich Traubenstr. 3 / Schweiz

# MINI - TENS R - 048



Fadenspannungs-Messung  
mit MINI-TENS R - 048

Yarn-tension measurement  
with MINI - TENS R - 048



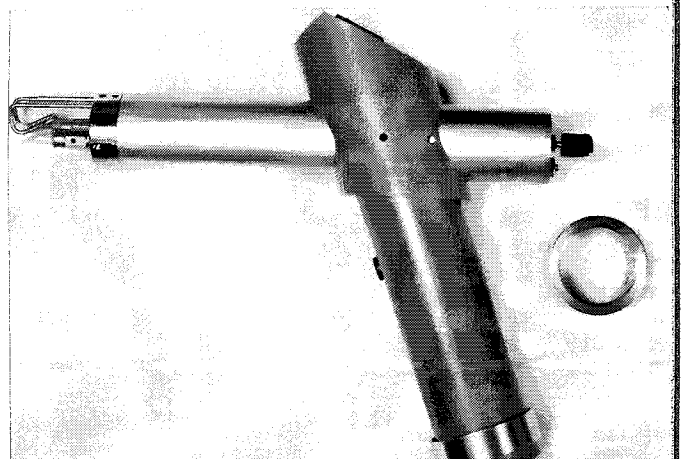
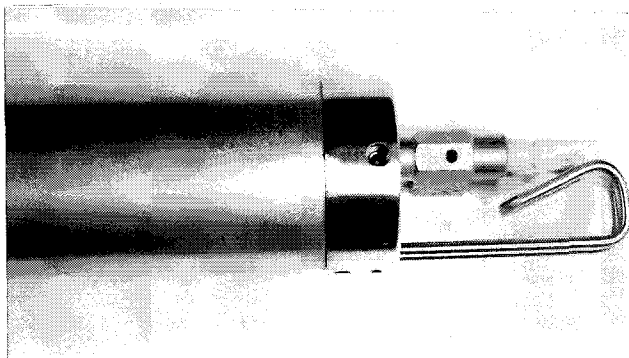
MINI - TENS R - 048  
- mit abgenommenen Eichgewichten

- with detached calibration weights

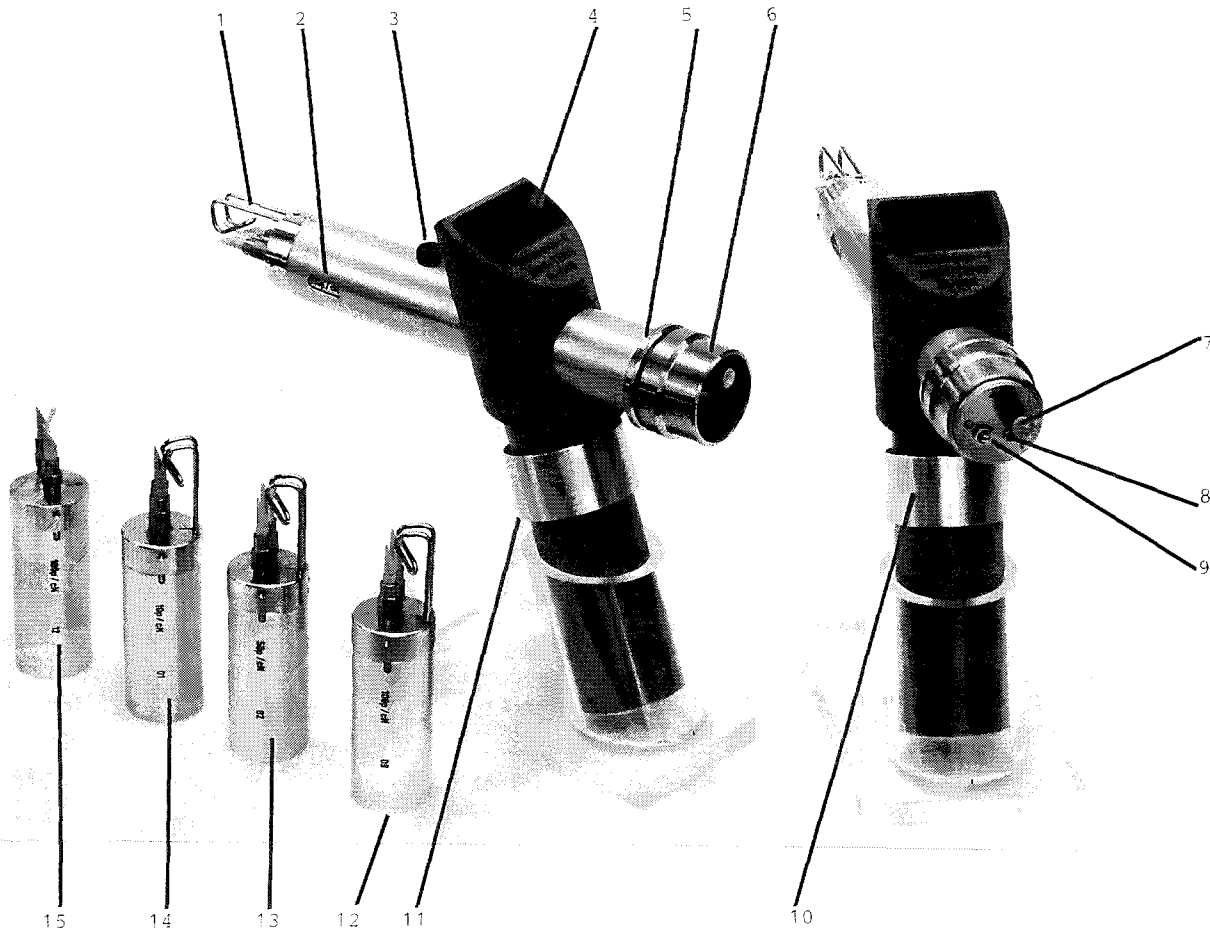
(10 und / and 50 gr.) ↓

Faden-Einführvor-  
richtung mit Mess  
kopfschutz ↓

Yarn threading-in  
device with measuring  
head protection



## MINI - TENS R-048



- 1 Self-threading device
- 2 Nominal value of measuring head
- 3 Fixation screw for measuring head
- 4 Display
- 5 Calibration ring 10 grams
- 6 Calibration ring 50 grams
- 7 Zero potentiometer
- 8 Signal output (0-1 volt)
- 9 Calibration potentiometer
- 10 Sliding ring for permanent display
- 11 Pushbutton with double function  
1<sup>st</sup> pressure point - measuring data  
2<sup>nd</sup> pressure point - hold
- 12 - 15 Exchange measuring heads

- Einfädel-Vorrichtung (Messkopfschutz)
- Nenngrösse des Messkopfes
- Fixierschraube für Messkopf
- Messwert-Anzeige
- Eichgewicht ( Ring ) 10 Gramm
- Eichgewicht ( Ring ) 50 Gramm
- Nullpunkt -Potentiometer
- Signal-Ausgang ( 0 - 1 Volt )
- Eich-Potentiometer
- Ueberwurf-Ring für Daueranzeige
- Einfach-Druck = Messwertanzeige
- Doppel-Druck = Hold
- Austausch Messköpfe