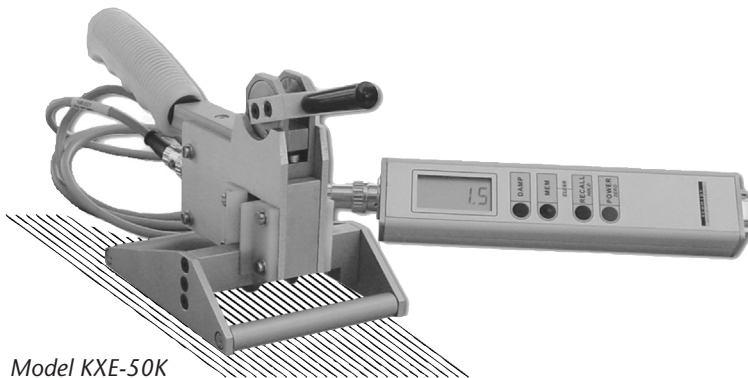


## Series KXE

**Portable electronic Tension Meter up to 50 daN with output signals - analog and digital output and digital display to measure tension of groups of yarns, e.g. for sizing and weaving**

### Special features

- Portable measuring head to measure yarn groups of 50 mm width
- The sensor can easily be engaged or disengaged while the machine is running
- Storage of Last, Average, MAX, MIN, PEAK<sub>max</sub>, PEAK<sub>min</sub> tension values during an operator set measuring period
- Outputs are available: Analog (0-2 V DC), Digital (RS232)
- Storage of 4000 readings, which can be downloaded to a PC
- Display unit is battery operated
- Rollers ball-bearing mounted
- Communication frequency 80 Hz



### Operating features

- Special designed yarn catching system
- For easy adjusting machines of the same construction to compare tension values
- Measurements can be made over the total width of the loom
- Width of outer roller 100 mm, measuring roller width 50 mm
- Communication with the display unit using standard programs, e.g. Terminal, Win Wedge, Dasy Lab, etc.

### Available Models

Type	Tension Ranges daN
KXE-20K	0.5 - 20 daN
KXE-50K	0.5 - 50 daN



"Tension Inspect" software  
Main features: display of tension values, tension graph, storage of readings, statistics, set-up menu

### Technical Data

<b>Calibration:</b>	According Schmidt factory procedure
<b>Accuracy:</b>	For 10% to 90 % of range: ± 1% Full Scale and ± 1 digit for remainder of range: ± 3% Full Scale and ± 1 digit
<b>Overrange (approx.):</b>	10 % Full Scale, without accuracy guarantee
<b>Overload protection:</b>	150 % Full Scale
<b>Sampling rate:</b>	max. 5 kHz internal only
<b>Damping:</b>	adjustable electronic damping (Moving averaging)
<b>Display:</b>	4 digit, 11 mm high
<b>Display update time:</b>	2 times / sec.
<b>Output signal:</b>	Analog: 0 - 2 V DC, linearized, conversion rate approx. 100 Hz Digital: RS 232 (19200, 8, N, 1), data rate 80 readings/sec (Hz)
<b>Memory:</b>	Last, Average, MAX, MIN, MAX <sub>Peak</sub> , MIN <sub>Peak</sub> , max. 4000 values
<b>Communications frequency:</b>	1 each 10 sec to max. 80 readings / sec
<b>Connecting cable:</b>	Sensor to display unit 1.5 m
<b>Temperature range:</b>	10 - 45° C
<b>Air humidity:</b>	85 % RH, max.
<b>Power supply:</b>	9 V E block, e.g. long life 9 V lithium (approx. 50 hours of continuous use)
<b>Housing material:</b>	Display unit: Aluminium profile with plastic outer casing (PVC), Sensor: Aluminium
<b>Housing dimensions:</b>	Display unit: 230 x 45 x 48 mm (LxWxH) Sensor: 165 x 110 x 140 mm (LxWxH)
<b>Weight, net (gross):</b>	Display: approx. 370 g (1050 g), Sensor: 1050 g (1500 g)