

Portable Yarn Tension & Rate Meter

**** code 298E ****

Portable Yarn Tension & Rate Meter instrument is a stand-alone electronic apparatus for accurately measuring and displaying three (3) quality-critical parameters involved in knitting, namely, yarn consumption, yarn tension and yarn speed. All contribute to producing repeatable, uniform quality fabric and products from circular knitting machines with rotating needle cylinders and flat knitting machines, including all body, hosiery and sock machines.

A unique, trigger-operated, yarn access system provides easy and sure yarn access and contact with a yarn tension-sensing pin and a yarn speed wheel, while a machine frame-mounted sensor counts revolutions every time a specific, rotating or moving magnetic part passes it, to provide machine RPM and yarn consumption information

This easy-to-use instrument accumulates the data required to produce repeatable, uniform material and products from one machine to the next, even when using different cylinder diameters.



Yarn length

Yarn speed

Yarn tension

Features

- Shorter setup times because existing items can be called up and repeated
- Uniform stitch length ensures a uniform fabric structure
- The instrument displays the Normal, Average and Peak values for yarn tension. All values are shown on an easy to read back-lit LCD display.
- Accurately measures Machine Speed, Yarn Length, Yarn Tension and Yarn Speed, in selectable Metric or English units.
- Also displays yarn Normal, Average and Peak Tension values realized during the measuring period.
- Battery-powered, lightweight and well-balanced for high portability and easy handling.
- User can adjust the preset cylinder rotation count from 1 to 100 as desired

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Complete Kit

Supplied as a complete kit with Instrument, Battery Charger (with US, EU, UK, & Australia Plug Adapters), Revolution Sensor (with cable and plug), Data Transfer cable with plug, Holder for Revolution Sensor, Magnet with holder, Calibration Kit (20g weight + yarn sample) and Instruction Manual – all supplied in a foam-fitted Carrying Case.



Technical features

DETAIL	DESCRIPTION
Power Supply	Two 1.2 V rechargeable NiMH batteries
Battery Charger	Primary, 100 to 240 V AC, 47 - 63 Hz; secondary 5 V, 2 A DC
LCD Digital Display	1 to 9,999 metres or inches
Max yarn speed	1,000 m/min or 1100 yd/min
Revolution measuring range	1 to 100 revolutions
Battery Life	50 hours in normal service
Battery stand-by time	300 hours
Yarn tension	0 - 50 cN (normal, average or peak value)
Accuracy	± 1 cm or ± 1 inch
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