

Spectrum 4

Process Multimeter for Sizing



- MOISTURE •WET PICKUP
- SQUEEZE-ROLL PRESSURES
- TENSIONS •STRETCH
- DUROMETER •TEMPERATURES

PLUG 'N READ

**INSTRUMENT RECOGNIZES PROBE,
CALIBRATES ITSELF!**

DOWNLOAD TO YOUR PC AND GET YOUR OWN PRINTOUT!



MOISTURE / WET PICKUP

ROLL PRESSURE

STRETCH

DUROMETER

TEMPERATURES



STRANDBERG ENGINEERING LABORATORIES, INC.

1302 N. O. HENRY BLVD. (U.S. 29 N.) • GREENSBORO, N.C. 27405 • U.S.A.

TEL: (336) 274-3775 • FAX: (336) 272-4521 • EMAIL: sensors@strandberg.com • <http://www.strandberg.com>

Spectrum 4

PORTABLE PROCESS MULTIMETER FOR SIZING

On-line instruments just can't see into the nooks and crannies of a slasher like the SPECTRUM 4, which opens the slasher to regular audits. Take your measurements and download them into your PC for the kind of printout you've always wanted.

MOISTURE/WET PICKUP... Walk the Hand Roll, Type HR-20-S, across the loom beam. Look for side-center-side variations and wet streaks. Just a few wet ends point to squeeze-roll dents and where they are! Cyclic moisture changes indicate defective steam traps. Use the hand roll on wet warp. Again, check the wet pickup from side to side.

WET SELVAGES... Use the Selvage Probe, Type ES-20-S to check for wet selvages in the leasing section. Use it to check side-to-side wet pickup at the size boxes.

SQUEEZE-ROLL PRESSURE... Between sets, use the Squeeze Roll Pressure Sensor, Type 8845, to get numerical pressure readings from side to side. The slightest misalignment makes a big difference in wet pickup profile. Watch out for wear. Know when to regrind the rolls.

STRETCH... Walk the Speed Sensor, Type 8840, from the creel to the size boxes, on to the cans, through the leasing section, to the front roll, and finally to the loom beam, itself. It memorizes each speed reading and automatically calculates stretch to the nearest tenth of a percent. Compare stretch at run speeds with stretch at slow speeds. Watch out for slippage on rolls and cans. Get readings over short spans in the size box and at the front roll, also between drying sections. Remember, a few tenths too much stretch can increase loom stops 10 to 30 percent on polyester/cotton warps!

DUROMETER... A 25 mm (1") indenture ball is used in the Textile Durometer Probe, Type DP-2, to see that your beam winding tension is on target. Use the probe also on dye beams to avoid blowouts.

CONTACT TEMPERATURE... Immerse the Temperature Sensor, Type 8842, in the size boxes, touch the dry cans, also motors and gear boxes. It's a fast response contact temperature sensor.

NON-CONTACT TEMPERATURE... Use the radiation pyrometer, Infratemp, Type M-50, on inaccessible surfaces, especially when they are in motion. Get instant readings of yarn temperature, can surface temperatures, and the temperatures of motors and gear boxes.

TENSION... Use Tension Sensors to measure individual end and full warp tensions in the creel, on the stretch susceptible wet sections, between the can sections, in the leasing section, at the front roll, and on to the loom beam.

-SPECIFICATIONS-

POWER REQUIREMENTS... Battery operated 4 size AA, line powered 115/230 volts a-c, turns off automatically when not in use

WEIGHT... 0.57 kg (1.25 lb), sensors separately listed

DIMENSIONS... 216 mm (8.5") high, 112 mm (4.4") wide, 41 mm (1.6") deep

HOUSING... ABS plastic

KEYBOARD... Polycarbonate covered, tactile-feel

DISPLAY... Liquid crystal, 70 x 38 mm (2.75" x 1.5"), digital with analog bar graph

RECALL... Minimum and maximum readings, other recalls specified for certain sensors

MENUS... Keyboard selection

STORAGE... 100 data points for downloading to PC

OUTPUTS... RS-232 serial communications



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