Pick & Course Counter

INDICATOR, MODEL 7762A

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ON-LINE
PICK AND COURSE COUNTER
ACCURATE TO THE NEAREST
TENTH PER INCH OR
CENTIMETER
FOR FINISHERS AND BUYERS!

LASER PICK/COURSE SENSOR
TYPE 6307A

Read thread counts on tenter frames, shrinking ranges, compactors and cloth rooms.

Keep an eye on an important variable that is near the top of the list when it comes to cloth quality.

Guard against overshrinking. Optimize fabric yield. Recover its cost in a few weeks!

STRANDBERG ENGINEERING LABORATORIES, INC.
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-GENERAL INFORMATION-

Monitor your pick and course counts to the nearest tenth per inch or centimeter on a big LED display, clearly readable at 10 meters!

Compressive shrinking, overfeeding, and compacting should be controlled to maximize yield. First, these processes must take up the stretch caused by pulling the fabric through the finishing mill. Then, they must apply just enough shrinking to avoid more than an agreed amount of further shrinking when the fabric is repeatedly washed and dried.

The Strandberg Model 7762A Pick & Course Counter fills the bill as an on-line monitor. It has analog and RS-232 outputs for automatic controllers, PLC's, chart recorders and printers. It complements the Strandberg line of fabric width, areal density, moisture, and wet pickup controls for finishing mill processes.

The 7762A utilizes Strandberg's new, hermetically sealed and nitrogen gas filled Laser Pick/Course Sensor, Type 6307A, which requires only grazing contact with one side of the fabric. One of Strandberg's precision displacement sensors accurately measures fabric length over the thread count interval to display picks and courses to the nearest tenth per inch or centimeter at speeds up to 200 yards or meters per minute.

A microprocessor-controlled servomechanism automatically aligns the laser beam slit to provide the optimal reflected signals off the rapidly passing threads. Conventional thread counters simply count the threads. The Model 7762A uses high speed digital signal processing to **perform an analysis of each and every thread** to produce accurate counts for the most difficult fabric constructions, finishes and colors.

Use the Model 7762A Pick & Course Counter on tenter frames, compressive shrinkage ranges, and compactors or just about anywhere you want to monitor pick and course counts on line. Connect a printer to prove you did the job right. Connect the 7762A to a Strandberg Series 1600 Indicating Controller for style-based set-point automatic control for short or long lots.

Optimize fabric shrinkage, compaction or yield today! Your customers will see the difference immediately. And you will see the savings piling up on your bottom line.

-SPECIFICATIONS-

Power Requirements	85-265 volts 50/60 Hz
Weights and Dimensions ..	Indicator, Model 7762A, 3.7 lbs. (1.7kg), 10.2" (259mm) high, 6.9" (175mm) wide, and 4.4" (112mm) deep Pick/Course Sensor, Type 6307A 8.5 lbs. (3.9kg), 4.2" (107mm) high, 8.3" (210mm) wide, and 6.3" (160mm) deep Displacement Sensor 3.5 lbs. (1.6kg), 11" (280mm) long, and 7.6" (193mm) wide Surface-driven Type R90-200 or Shaft-driven Type FM90-200
Housings	Indicator, Model 7762, fiber-glass NEMA-4X with hinged cover for use in wet processing areas Sensor, Type 6307A, cast aluminum/ stainless-steel face, water tight
Principle of Operation	Impulses from laser reflectance, evaluated over length intervals
Range	0-200 or more picks or courses per inch or centimeter
Alarms	Set points and tolerances in tenth pick and course steps, high and low alarm LED's
Auxiliary Outputs	4-20 mA d-c; channel 1 thread count, channel 2 speed or set point
RS-232 Output	Length interval, thread count & speed with report summary including minimum & maximum thread counts, lot number
Resolution	±0.1 pick or course per inch or centimeter

DISPLACEMENT SENSOR TYPE R-90-200

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