The Shrinkage Monitor™

INDICATING CONTROLLER, MODEL 7770

ON-LINE SHRINKAGE CONTROLLER ACCURATE TO THE NEAREST TENTH PERCENT

The Shrinkage Monitor
INDICATING CONTROLLER, MODEL 7770
FOR COMPRESSIVE SHRINKING RANGES

Length Sensor
R-90-200-HSA

Guard against overshrinking where every extra tenth percent causes thousands of yards or meters of fabric to vanish each month. Reduce residual shrinkage variations and your customers will benefit immediately.

Strandberg stretch/shrinkage sensors are accurate to one part in a thousand. They stay that way day after day, year after year. Why? Because they are in touch... in touch with the thing they measure.

STRANDBERG ENGINEERING LABORATORIES, INC.
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-GENERAL INFORMATION-

Monitor and control your shrinkage to the nearest tenth percent on a big LED display, clearly readable at 10 meters! The Model 7770 is continuously watching and controlling against fabric losses due to overshrinkage 24 hours a day.

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 7770 can be used at each process... so you can see what's really happening and keep under control..

Payback for the 7770 is measured in weeks. Worldwide installations of Strandberg shrinkage control instrumentation have generated a proven track record of reducing applied shrinkage and residual shrinkage variation. Because of on-line shirnkage control, residual shrinkage variation is reduced so that the control set point for applied shrinkage can be reduced. Use a minimum reduction in shrinkage of 0.5% to start. Calculate how many yards/meters of fabric production you gained in the first month. The 7770 will have probably already paid for itself.

The 7770 employs two highly accurate speed or displacement transducers which produce 1,000 pulses per meter. The use of low mass, high surface area wheels in contact with the fabric maintain accuracy without slippage over wide temperature ranges and long-term affects of abrasion.

The 7770 employs a digital step correction control algorithm that applies the right amount of correction at the right times to keep the shrinkage on target. Increase and decrease relay ouptuts are easily connected to existing speed controls or to mechanical transmissions by use of a control motor.

The 7770 is simple to install and operate. The LCD display tells the operator exactly what is happening as the controller does its job. You can expect to get results the same day you install it. 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 ..	Controller, Model 7770, 3.7 lbs. (1.7kg), 10.2" (259mm) high, 6.9" (175mm) wide, and 4.4" (112mm) deep Length Sensor 3.5 lbs. (1.6kg), 11" (280mm) long, and 7.6" (193mm) wide Surface-driven Type R90-200-HSA
Housing	Controller, Model 7770, fiberglass NEMA-4X Length Sensor, Type R90-200-HSA (surface-driven) stainless-steel housing sealed against moisture with low mass, high surface area wheels
Principle of Operation	Impulses from speed/length transducers evaluated over length intervals
Range	0-30.00 percent shrinkage
Control	Set points and tolerances in 0.01 percent steps, length-based digtial step correction for connection to control motor, motorized potentiometers, increase/decrease speed controls
Outputs	High and low control relays, 4-20 mA d-c for recorders, etc.
Resolution	0.1 percent
Accuracy	0.1 percent

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