

The Moisture Monitor™

DIGITAL INDICATOR MODEL M-607



ON-LINE RESIDUAL MOISTURE MONITORING FOR ENERGY SAVINGS AND QUALITY CONTROL



- ✓ COVERS THE ENTIRE RESIDUAL MOISTURE SPECTRUM... STARTING AT ZERO PERCENT
- ✓ BRIGHT LED DISPLAY
- ✓ ALL FIBERS, ANY BLEND
- ✓ EASY TO INSTALL
SIMPLE TO OPERATE
- ✓ FOR USE IN SIZING,
SANFORIZING, DRYING,
FINISHING, TENTERING

Moisture Sensing Roll Type R6A-M

60-YEAR TRACK RECORD
IN MOISTURE SENSING



STRANDBERG ENGINEERING LABORATORIES, INC.
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-GENERAL INFORMATION-

SIZING MACHINES...

Mount it up front in plain view. Use your speed control button to keep the moisture right on target. Put another one on each predryer.

SANFORIZERS...

Monitor the moisture at entry. Set a target. Regulate the atomizer spray to stay on target. Monitor moisture at delivery to ensure no shrinkage losses.

FABRIC DRYERS, STENTERS...

Stop overdrying dry fabric! Let the MOISTURE MONITOR tell you how fast to run.

INDIGO DYE SHEET AND ROPE RANGES...

Avoid liquid size dilution by watching out for excessive moisture in fabric off dye ranges before sizing. Get good rebeaming quality on rope ranges by keeping an eye on moisture.

KNIT GOODS DRYERS...

Use full-span rolls or bars on single and multi-strand dryers to quickly detect wet spots, wet streaks, and wet edges, no matter where they are.

CARPET DRYERS...

Spiked moisture sensing rolls permit the MOISTURE MONITOR to penetrate dry pile fibers down to the damp base to assure adequate drying. Smooth rolls in tandem are used on rubber and latex backing to assure complete curing.

RAW STOCK DRYERS...

Talking about increasing efficiency! Look for 100% and more on raw stock dryers. It's almost impossible to estimate the moisture in raw stock by feel, so the dryers are invariably run about half speed. Mount special moisture sensors in the duct or full-span fingers across the apron. Keep the on target by adjusting stock or apron speed. The payoff is unreal!

PLUS NON-TEXTILE PROCESSING MACHINES AND DRYERS...

Use the MOISTURE MONITOR on paper, boxboard, wood, nonwovens, and everything hygroscopic and electrically nonconductive, including agricultural products in process, tobacco and cigarette filters, moisture absorbing powders and fibers, both organic and inorganic, all on continuous process machines and dryers.

The new "M-607" is the ultimate result of more than a half century of making thousands of MOISTURE MONITORS. Its all solid-state design with all active components packaged on one plug-in module introduces a kind of serviceability heretofore unknown in industrial electronic equipment.

The 607 is calibrated for the entire spectrum of natural and man-made textile fibers as well as any blends comprising them plus many non-textile materials. The operator simply "dials in" the calibration factor. Digital monitoring is then instantaneous.

-SPECIFICATIONS-

| | |
|------------------------------|--|
| Power Requirements | 115/230 volts a-c |
| Weights and Dimensions | 6.0 lb (2.7 kg); 10.0" (254 mm) high, 7.25" (184 mm) wide, 3.8" (97 mm) deep |
| Enclosure | NEMA 4 (IP65) water resistant with hinged door for use in wet processing areas |
| Mounting | Wall, 4 holes 5/16" (7.9 mm) diameter, 4" (102 mm) horizontal, 9" (229 mm) vertical, any position |
| Electrical Access | Bottom, 3 holes 0.75" (19 mm) diameter, 1.25" (32 mm) apart |
| Maximum Temperature | 140° F (60° C) |
| Fuse | 1 ampere - 250 volts |
| Input | Moisture sensing rolls, Strandberg Type Nos. R6A-L, R6A-M, R6A-H, R6A-HK, and R6A-LS, 6" (152 mm) rolls, including full-span sensing rolls for slasher warp, fabric, and carpet, special rolls available for stock dryers, and existing guide rolls using Insulation Kit |
| Output | 4-20 mA d-c, 0-400 ohms |

| Standard Regains and Ranges | Fiber | Std. Regain | Range |
|-----------------------------------|---------------------|-------------|------------|
| | Acetate | 6.9% | 1.8 -18.0% |
| | Acrylic | 1.3 | 0.3 - 3.4 |
| | Aramid | 7.0 | 1.8 - 18.2 |
| | Cotton | 7.7 | 2.0 - 20.0 |
| | Fluorocarbon | 0.1 | 0.0 - 0.3 |
| | Glass | 0.1 | 0.2 - 0.3 |
| | Jute, Kenaf | 12.5 | 327 - 32.5 |
| | Lyocell | 11.5 | 3.0 - 29.9 |
| | Melamine | 5.0 | 1.3 - 13.0 |
| | Modacrylic | 2.5 | 0.7 - 6.8 |
| | Nylon | 4.4 | 1.1 - 11.4 |
| | Olefin | 0.1 | 0.0 - 0.3 |
| | Pelco | 0.6 | 0.1 - 1.6 |
| | Polyester | 0.6 | 0.1 - 1.6 |
| | Polyethylene | 0.1 | 0.0 - 0.3 |
| | Rayon | 12.1 | 3.1 - 31.4 |
| | Saran | 0.1 | 0.0 - 0.3 |
| | Silk | 10.0 | 2.6 - 26.0 |
| | Spandex | 1.3 | 0.3 - 3.4 |
| | Sulfar | 1.5 | 0.4 - 3.9 |
| | Triacetate | 3.3 | 0.9 - 8.6 |
| | Viscose Rayon | 13.0 | 3.4 - 33.8 |
| | Wool | 13.6 | 3.5 - 35.3 |
| | All blends of above | | |

Low regain fibers may provide higher ranges due to the presence of sizing and coating films. Ranges above are based on use of medium weight detector roll. Other detector configurations may require different scaling factors confirmed by lab test.

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| Accuracy | Within 2% of reading, such as $\pm 0.1\%$ at 5% moisture regain |
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