

Dimension Stability System DSS

Module **VSD** 02

Wet Stretch Dynamics Analyzer

Measuring Instrument to determine the **Dynamics of Wet Expansion of Paper** by means of one-sided Liquid Contact



Measurement of the dynamics of the change in dimension of paper by means of one-sided contact with water or water based liquids under adjustable tension

Main Applications

- Decor paper in contact with:
 - | Water | Melamine Resin | Gravure ink
- Coating base paper, newsprint paper, offset printing paper, label paper, ink jet-paper etc. in contact with:
 - | Water | Fountain solution | Ink jet-ink
- Linerboard in contact with:
 - | Water (flatness problem)

Main User

- Paper/board producer
 Chemical Supplier
- Converter of Paper
- Replacing classical wet expansion methods, which are using two-sided liquid contact.

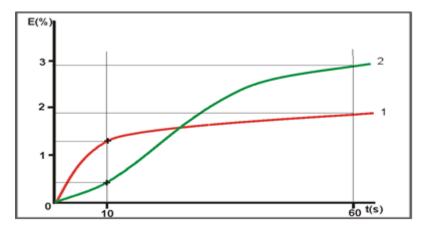


Features

Benefits:

- One-sided liquid contact
- Integrated measurement of paper moistness, humidity and ambient temperature
- Fast contacting of the paper and liquid, important especially for high absorbent paper
- Real trial conditions by adjustable tension
- Objective measuring method, free of subjective errors
- High reproducibility of the results: ±0.05% of result
- Accuracy better than \pm 0.1% abs. \pm 5% of the analytical value in the area of 0 to 3% stretching
- Resolution approx. ± 0.013%
- Easy handling
- Measuring range:
 - Wet expansion to a maximum of 25%, measuring duration unlimited
 - Recording the expansion from the moment of liquid contact, displaying the results from approx. 100 ms after initial contact
- Measuring results:
 - Expansion-time diagram
 - Expansion value at a free selectable time point
- Software:
 - Convenient user interface for measurements
 - Easy to handle in quality assurance

Example: Wet stretch dynamics of two label papers – contrary behavior at 10s and 60s!



Technical data

Sample dimension: min. 210mm x (60±0.5)mm Dimension: 300 x 280 x 320mm (H x W x D)

Weight: 8.5 kg

Power supply: 230V, 50Hz / 115V, 60H

emtec Electronic GmbH • Gorkistrasse 31 • 04347 Leipzig • Germany E-mail: info@emtec-papertest.de

Phone: +49 (0) 341 245 70 90 • Fax: +49 (0) 341 245 70 99

www.emtec-papertest.com

