

*a measurable difference...*



## Out of Plane Ultrasonic System

### Model: OPUS

OPUS is an out-of-plane ultrasonic system for the measurement of paper and like materials using a dry contact technique.

**The instrument measures soft platen thickness and determines Specific Stiffness and Young's modulus in the "through" direction (referred to as Z-directional or ZD) of the material under test.**

This information is valuable especially for paper board manufacturers and is useful in packaging and other board performance applications.

### Application:

- Paper
- Paperboard
- Tissue
- Gypsum
- Thin Film Plastics
- Pressure Sensitive Materials

### Features:

- Longitudinal wave transducers
- Pre-Engineering and end-use performance prediction
- Tissue Softness prediction
- ZD Longitudinal Specific Tensile Stiffness
- Apparent Density values
- Young's Modulus values
- Impedance values
- Attenuation values
- Integrated Soft-platen Thickness
- Minimum sample area diameter: 25mm
- Loading Pressure: 50 kPa & 20 kPa
- Generates Excel compatible data files for data analysis

### Benefits:

- Fast Measurements (10 seconds)
- Measures fundamental engineering constants of paper
- Non destructive testing
- No sample preparation = less operator error
- Sensitive to small variations
- Accurate and repeatable testing
- Removes test ambiguity
- Automated testing for full CD strip



**NEW**

### Standards:

- TAPPI T551

### Connections:

- **Electrical:** 220/240 VAC @ 50 HZ or 110 VAC @ 60 HZ  
(please specify when ordering)

### Dimensions:

- **H:** 581 mm • **W:** 303 mm • **D:** 404 mm
- **Weight:** 29 kg

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