emtec
Innovative Testing Solutions

MEASURING SYSTEMS

emtec´s product overview of innovative testing solutions for the pulp, paper, nonwovens and textile industry

Emtec Electronic, located in Leipzig (Germany), develops and manufactures specialized test devices to help optimize production and converting processes as well as product quality. A network of independent representatives is responsible for emtec´s activities in more than 80 countries worldwide.

WET END OPTIMIZATION

FPA *touch!*

Fiber Potential Analyzer
(lab device)

- measures the surface charge of fibers (zeta potential), streaming potential, conductivity, pH value, temperature
- small size and light weight (carry-on-luggage size)

FPO

Fiber Potential Analyzer Online
(process connected with real time data)

- measures online the surface charge of fibers (zeta potential), streaming potential, conductivity, pH value, temperature
- two sampling points (up to 6 tests / hour)
- little maintenance effort

CAS *touch!*

Charge Analyzing System
(lab device)

- determination of the cationic / anionic demand by measuring the particle charge
- with no, one or two integrated titrators
- small size and light weight (carry-on-luggage size)

DFA

Dynamic Filtration Analyzer
(lab device)

- evaluation of the influence of chemicals on the filtration characteristics of fiber suspensions
- measurement of pH value
- calculation of total and filler retention

HAPTIC & MECHANICAL PROPERTIES

TSA

Tactile Sensation Analyzer

- measurement of softness, smoothness and flexibility of base and finished products
- hand feel (HF value) calculation by special algorithms possible
- optional: digitization of optical & thermohaptic properties

TSA Modules for mechanical properties

- measuring **burst resistance** (DIN EN ISO 12625-9 & 12625-11)
- measuring **compressibility** of thick or stacked material
- measuring **crumple resistence** (simulation of crumple behavior)

EMTEC | MEASURING SYSTEMS
PRODUCT OVERVIEW

CONVERTING PROPERTIES

EST
Surface and Sizing Tester

- measurement of surface sizing, surface hydrophobia and surface porosity
- helps to predict and optimize gluability, printability and coatability

PDA.C02 MST
Penetration Dynamics Analyzer

Module Standard (modular system)

- measurement of surface sizing, surface hydrophobia and surface porosity
- helps to predict and optimize gluability, printability and coatability

PDA.C02 MSC
Penetration Dynamics Analyzer

Module Standard Coating

determination of the
- coating color and base paper interactions
- surface sizing, hydrophobia and porosity
- coating quality of paper and board

by paper surface characterization

PDA.C02 HVL
Penetration Dynamics Analyzer

High Viscous Liquids

- determination of the interaction of paper and board surfaces with high-viscous, contaminating and real process liquids

DIMENSION STABILITY

DSS WSD
Dimension Stability System

Wet Stretch Dynamics Analyzer

- measurement of the papers dimension change dynamics under one-sided water based liquid contact
- trial conditions simulation by adjustable tension possible

DSS HSA
Dimension Stability System

Heat Shrinkage Analyzer

- measurement of the dimension stability, serparately in CD and MD (temperature: up to 230°C)
- helps to predict converting properties of paper, board and OPP films

MINERAL FILLER CONTENT

ACA
Ash Content Analyzer

- non-destructive measurement of the total filler content and the percentage distribution of the individual fillers
  (calcium carbonate, clay, talcum, titanium dioxide, barium sulfate, iron oxide and others)
- highly accurate, reliable and operator independent results

emtec Electronic GmbH
Gorkistraße 31
04347 Leipzig
Germany

+49 341 24570 99
+49 341 24570 90
info@emtec-electronic.de
www.emtec-electronic.de