

8-4-2026, Process control equipment

Charge and Zeta potential measuring equipment by Emtec Electronic, Germany



Emtec TSA. Photo: Emtec

Two well-known compact and easily transportable laboratory instruments will be showcased at TappiCon 2026 in Columbus, Ohio, USA on April 26-29, 2026, which are designed for wet-end applications in the papermaking process: the CAS Charge Analyzing System for measuring particle charge in pulp filtrate, and the FPA Fiber Potential Analyzer for determining the zeta potential of fibers in the pulp. An automated online solution for determining the zeta potential of fibers will also be presented: the emtec FPO Fiber Potential Analyzer Online. Once installed directly on the paper machine, it automatically takes alternating samples from two possible sampling points, measures them, and cleans the measuring cell, while transmitting measurement data – such as streaming potential, zeta potential, conductivity, pH value, and temperature – to the process control system in the paper mill. The results can also be optionally stored in a secure data cloud for global remote access.

For the quality control of base paper and finished products, emtec presents its redesigned softness measuring device TSA Tactile Sensation Analyzer. Compared to its predecessor, the Tissue Softness Analyzer, the integrated touchscreen simplifies operation, and the device can optionally measure air permeability, thermo-haptics (surface thermal conductivity), and thermal insulation. In addition to fiber softness, the TSA continues to measure the flexibility and surface smoothness of the sample.

The ACA Ash Content Analyzer is used to detect the total content of mineral fillers and the individual minerals and fillers in paper and board products, delivering accurate results in percent within one minute without destroying the sample. It is the first of its

kind and replaces the traditional, time-consuming, and energy-intensive combustion method. (Source: *Pulpapernews.com*)