

# Online Quality Measurements of Paper



The Smart Platform unit installed on each of our three paper making machines is an integral component in our quality process. The computer system driving the unit utilises scanning technology to monitor and diagnose various process conditions to provide advice for correcting conditions.

The Smart Platform delivers valuable information about grade variation and colour problems to computer monitors, allowing operators to quickly isolate these problems and make immediate adjustments.

The Smart Platform houses the Online Sensors used to measure critical customer paper properties. The Online sensors use a variety of the latest technology to accurately measure the paper as it is being made, and then the system adjusts various pumps, valves, and additives to maintain the tight quality specifications.

The state of the art technology used in the Smart Platform sensors includes;

- A Low intensity Radioactive signal is used to measure the Basis Weight (total mass of the paper)
- An X-Ray source is used to measure the inorganic filler content of the sheet.
- Infra Red Radiation of different frequencies is used to measure the sheet moisture content.
- Magnetic proximity principles are use to accurately measure the thickness of the paper,
- High intensity Xenon light is reflected off the paper, and collected, and analysed to measure the colour.