



SpecMetrix® In-line Coating Measurement Systems

Continuous and More Accurate In-Line Coating Thickness Measurement Data

In-line Coating Thickness Measurements for Coated Coils:

SpecMetrix Prime and EXR In-Line Coating Thickness Measurement Systems deliver a new standard for non-contact, non-destructive real-time absolute thickness measurement data for primers, backers, top coats and other coil coatings.

The modular design and high-speed operation of these in-line systems optimize coating consumption and streamline plant set-up, changeover and inspection times in diverse plant processes either as fixed probe or traversing system configurations.

In-line Coating Thickness Measurements for Flexible Packaging and R2R Processing Industries:

Award-winning SpecMetrix In-Line Coating Measurement Systems deliver a higher standard of precision for the non-contact, non-destructive and real-time coating thickness and film layer measurement of coated film, foil and other roll applications, wet or dry.

The modular design and high-speed operation of these in-line systems reduce coating costs and streamline plant set-up, changeover and inspection times in diverse plant processes, either as fixed probe or traversing system configurations.

Features & benefits:

- **Non-Contact and Non-Destructive**
Measurements are taken with no contact to coatings or substrate, preserving sample and product integrity.
- **Absolute Thickness Measurement**
Ultra precise real-time measurement of coatings across, whether it be flexible materials, roll-to-roll processing or coated coils and flat sheets.
- **Substrate Independent**
Measurement ready for wet or dry samples of clear, colored or pigmented substrates.
- **Broad Range of Use**
Real-time measurement of applied film and web coatings including adhesives, barrier, scratch resistant, wet silicones, applied primers, base coats, top coats, lacquers, back coats, laminates, clear coats and more.
- **Non-Hazardous**
Incorporates exclusive non-radioactive and non-invasive optical technologies.
- **Environmentally Friendly**
Non-destructive testing method that reduces scrap, solvent usage, labor hours and energy costs.
- **Flexible, Fast and Modular**
Modular in-line systems include fixed probe or traversing designs for single or dual sided use.
- **Powerful SpecMetrix Software**
User-friendly software package stores all data to Excel® or plant networks for SPC analysis during or following production runs.



▲ Coating process data is captured in real-time and displayed on the intuitive SpecMetrix touch screen interface, immediately improving coating process control and quality.



▲ SpecMetrix fixed probe configuration.



◀ SpecMetrix traversing configuration.

Disclaimer

The information contained in this document is liable to modification from time to time in the light of experience and our policy of continuous product development. Check the Industrial Physics website for the latest version.

Technical Specification:

Measurement Range: 0.7 to 350 microns*
(coated coils)
0.7 to 75 microns*
(pigmented/non-transparent coatings)

Measurement Range: 0.3 to 250 microns
(coated flexible packaging materials and R2R processing)

*Dependent on selected optical packages

Accuracy: +/-3% of coating thickness (nominal)*

*Based on accuracy verification using NIST traceable thickness standards over the entire measurement range of 0.2 to 250 microns

Web Speed: Up to 2000 feet/minute, Up to 600 meters/minute

Measurement Speed: Up to 150 per second

Scanning Speed: Up to 5" (125 mm)/second

Temperature Range: 0 to 55 °C

Web Width: Customizable

Output Metrics: microns, mils, g/m²
(coated coils systems)

Output Metrics: microns, mils, mg /in², mg/4in², g/m², mg /cm², lbs/ream
(coated flexible packaging materials and R2R processing)

Operating System: Windows® platform

Manufactured: Made in USA

Certifications: CE S&B UL

Contact Details

web. www.industrialphysics.com

email. info@industrialphysics.com