SOLUTION SERIES

PRECISE ON-LINE COATING MEASUREMENTS FOR METALS PROCESS LINES

► Coat Weight
► Coat Thickness
► Process Control

www.ndc.com
When applying any coating, uniformity and maintaining minimum tolerances are key to ensuring product quality and cost control. That’s why it is essential to precisely determine the coating weight online, rather than with fewer and delayed manual laboratory measurements or downstream at the next coil process. On-line measurements also allow for direct control of the coating application.

Unparalleled Solutions for Coating Lines
NDC’s precision Near Infrared (NIR) Gauging systems effectively measure a variety of coatings and a range of weights in real-time, on both sides of the product and from edge-to-edge. Coating types measured include oil, wax, lacquer, varnish, passivation (phosphate or titanate) and anti-fingerprint coatings. Coatings can be both wet and dry depending on type and application. For all, the on-line measurements are 10x faster than other comparable systems and unaffected by process and ambient conditions such as lighting fluctuations, temperature, relative humidity, air quality and product movement. Complete process visibility and control ensures higher production, product quality and process efficiency.

NDC’s gauging systems are proven performers across the globe and can be configured to your meet your unique metal coating application needs. From initial project definition to final system implementation, our team of highly experienced and knowledgeable application specialists will support you every step of the way. And, every system is backed by NDC’s world-class service and support organization.

Get the NDC Advantage
► Reduce product change and start-up times
► Accurate on-line measurements independent of process and environmental factors
► Lower raw material consumption
► Decrease drying costs
► Enhance product quality and consistency
IG710S
Versatile, Reliable Coating Weight and Thickness Measurements

The IG710S delivers versatile measurements through its ability to use selective NIR wavelengths to precisely measure the variations in coatings on metal substrates.

The IG710S is delivered pre-calibrated for each application and is highly tolerant to the changing conditions found in metals process lines. This gauge combines low cost of ownership with long-term stability without the need for re-calibration, systematic monitoring or correction for drift.

The gauge’s patented optics tolerate strip or sheet oscillation to within $\pm 50$ mm ($\pm 2.0$ in.) and the robust NDC measurement algorithms provided with each application mean that it is insensitive to within-product variations. Gauge adjustments, when required, are very straightforward compared to other gauges offering similar technologies.

SR710S
The Highest Precision and Performance for Measuring Thin Coatings on Metal Coils

The SR710S delivers exceptional measurement precision of thin, high-value coatings on metal that have been difficult to gauge with alternative technologies. These coatings may be just a few microns (or mils) thick, but the combination of more intense mid-IR wavelengths plus the high-sensitivity detector used in the SR710S means it can accurately measure down to 0.1 microns -- while remaining unaffected by changing ambient and process conditions.

The combination of its compact form factor, performance and ability to measure coatings directly make the SR710S significantly more cost effective than alternative measurement technologies.

NDC TDi Systems
Complete Process Visibility and Control

NDC’s Total Distributed Intelligence systems use a robust, easy-to-install architecture with minimal hardware that is reliable and easy to maintain.

As part of the TDi system, the IG710S and SR710S gauges function as “i-Sensors”. These are “smart” devices with the measurement signal processing completed in each of the gauge’s high-speed embedded processor prior to the operator consoles and control devices on the network. The same is true for NDC’s scanning frames, such that when position data from an intelligent scanning frame is combined with measurement data from an intelligent gauge the resulting profile accurately represents the final product.

Both IG710S and SR710S gauges can be installed on NDC’s MiniTrak S- and MiniTrak O-Frame scanners. And, all TDi systems include an operator display and control options that provide fast, reliable data for effective process control.
Optimizing Your Investment with World-Class Service and Support

NDC’s technical expertise comes from deep experience supporting thousands of products at the world’s leading manufacturers. Our portfolio of support offerings leverages this expertise to assist you through the service lifecycle. We offer a complete range of cost-effective support solutions including commissioning, training, technical support and service agreements. Customers rely on our 24-7 availability via myNDC – the industry’s most progressive service cloud portal. Whether it’s configuring new equipment, training your technical staff or solving a technical problem, you can count on our experienced team to help maintain the health and performance of your NDC product.

Visit myNDC service cloud at ndc.custhelp.com.