ADVANTAGE SERIES

A BETTER WAY TO MEASURE THE QUALITY OF YOUR LITHIUM ION BATTERY PROCESS

- Coat Weight
- Thickness
- Inspection

Cost
Energy
Performance
Power
Life Span

Making Light Work
Leveraging the Spectris Collective of Advanced Battery Measurement Solutions

NDC is a member of the Spectris Advance family – an enterprise built and deployed through partnerships with the world’s leading providers/platforms, providing best-of-breed gauging and controls, Industry 4.0 connectivity, advanced analytics and deep domain expertise. Our solutions enhance productivity by streamlining processes, saving time, increasing yield and improving quality.

www.ndc.com
The Industry’s Only Photon Sensor Provides Continuous Precision

NDC’s new Photon Sensor delivers a new level of performance and visibility for measuring the coat weight applied to aluminum and copper foil substrates. Working with key LiB manufacturers, NDC developed novel and proprietary technologies to greatly improve electrode coating measurements. The result is a high-speed measurement solution designed for patch, zone and continuous coating lines offering the industry’s highest coat weight accuracy on anodes and cathodes.

NDC’s Photon Sensor reduces the number of measurement stations needed to cover multiple coatings on anode and cathode lines, keeping capital expenditure costs to a minimum.

Get More:
- Best-in-class streak resolution to ensure flat coatings
- Visibility of patch coating leading (bead) and trailing edges
- High-precision coat weight measurement accuracy to keep your process on target
- Non-nuclear, application-matched sensors for stable and predictable coat weight measurements
- Simple-to-complex solutions from single scanner to five or more scanners
- Advanced controls for average coat weight, coat weight flatness and cascade target management
Make Your LiB Calendering Process Even Better

With Our Advanced Micro-Caliper Thickness Sensor

It is well known that after the calendering process coatings exhibit some hysteresis and can change dimensionally. NDC understands the tight operating tolerances demanded by the calendering press line. That’s why we developed our new Micro-Caliper Thickness Sensor, optimized for press-line applications. This innovation provides sub-micron accuracy, high-resolution thickness measurements to produce the most consistent, highest-quality LiB components.

Get More:
► Precise control of machine- and cross-direction spatial measurements
► True picture of coating flatness
► Insensitive to flutter and changes in color or texture
► Dynamic compensation for gap changes
► Compact, rugged and easy to maintain

Archive Station enables high-density data storage, back-up and reporting
Surface Inspection System provides 100% product coverage to achieve zero defects
Press line controls for average thickness, gap and delta preset
Ultra-fast, high-resolution, opposing dual-displacement sensors provide continuous on-line thickness measurements using laser beam distance triangulation.

Total Distributed Intelligence for real-time process control, quality reporting, Industry 4.0 communications and data analytics.
LaserSpeed Pro performs high-accuracy line speed and patched geometrical measurements
NDC Enables You to Truly Measure the Difference

NDC Technologies is a leading global provider of measurement and control solutions, transforming today’s measurement experience through innovations. Our legion of satisfied customers benefit from:

► Over 50 years of producing a wide range of measurement and control instrumentation for a broad scope of manufacturing industries – including the largest organizations in China
► More than 30,000 sensors installed across the globe
► NDC depth and breadth of technical experience and resources
► World-class service and support organization with 24-7 myNDC cloud availability
► Fastest ROI and lowest cost of ownership
► Lifetime partner philosophy with customers to cooperatively develop solutions and improve competitiveness
► Peace of mind knowing that you are working with a stable, reliable organization for the long term

Applications We Serve

NDC provides measurement and inspection solutions for the following lithium ion battery markets:

- Electric Vehicles
- Energy Storage Systems (ESS)
- Electronics (cell phones, computers, etc)
- Toys
- Military
- Aerospace
- Medical

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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.