

THERMO SCIENTIFIC NONWOVEN APPLICATION PACKAGE

PRODUCT APP50-XX

The Nonwoven Application package is designed specifically for nonwoven lines, including carded, airlaid, meltblown, spunbond and spunlace processes and is further tailored for each specific application.

The Nonwoven Application Package defines basic real time measurement, network communications, data processing, and operator interface functions. Optional enhancements, such as special displays, control, SPC, IndustrialSQL Server™, third party I/O servers, etc., are available to expand the basic application package to a complete process management system.

The Nonwoven Application Package supports measurements of basis weight or thickness as well as constituent components in a variety of Nonwoven materials such as percent superabsorbent polymer in hygienic applications, percent binders in fiberglass mat lines etc.

The Nonwoven Applications Package also supports stringent reporting capabilities required by Nonwoven Industry, such as unique roll quality reports with full lot traceability, QC documentation using SPC and RQMS options etc.

MD Control of single or multi-cards or card to line speed ratio, greatly improves product quality by adjusting the process to hold product to its average target. Nominal Control adjusts product average to a fixed target. Target Management Control adjusts product to a System calculated flexible target, while providing both low point and low average protection.

21Plus!™ provides a platform for the integration of data and displays of optional software packages widely used in the Nonwoven Industry, such as Roll Quality Management System Reports etc.

21Plus!™ also provides for a multitude of Link options to various Nonwoven Line controls, such as PLCs.

FEATURES AND BENEFITS

- Application Package provides core operating software for nonwoven lines
- Optional constituent component analysis for high value or critical components like superabsorbent polymer and fiberglass binders.
- Accommodates the full line of sensors for a variety of measurements, which includes FSIR multi-component measurements.
- Continuously monitors and preprocesses all product and product data for viewing, archiving, reporting, and analysis
- Provides a set of standard user friendly displays configured specifically for nonwoven applications
- Provides a platform for optional special displays, control, reporting, and interface packages

THERMO SCIENTIFIC NONWOVEN APPLICATION PACKAGE

PRODUCT APP50-XX

DESCRIPTION

The Nonwoven Application Package provides the system's core software. This application is designed to take advantage of the power of Wonderware® InTouch™ software.

Scanning Sensor Support

The Nonwoven Application Package provides full support for the complete family of scanning sensors. Available online measurements include basis weight, true thickness, moisture, color, fiber concentration, fiber blend, percent binders, percent superabsorbent polymer etc.

Standard sensor processing features include automatic edge-of-sheet detection. Virtual sensors allow calculated properties to be displayed and manipulated as actual sensor data. Third party sensors can be integrated as well.

All sensor data is statistically processed in order to remove formation effects from the profiles, which are used for display and control. Profiles are displayed in high-resolution format, as well as a partitioned format, which presents the data in larger controllable segments or zones.

Distributed Data Acquisition

The Nonwoven Application Package provides support for distributed process inputs, which interface to the system. Communications to other modules is by means of a high speed Ethernet Network. Optional Wonderware I/O servers enable full integration of distributed devices, providing transparent access to controllers, PLCs and other intelligent devices from the operator displays.

Intuitive Display Structure

The system is designed to allow operators to easily navigate the system and access information quickly. Values and text are modified with a pop-up keypad or menu, which is called by simply touching the field. The common display header on each screen provides direct access to the most common displays, such as, Scan, Control, Recipe, Alarm and status messages.

Platform for Process Integration

Optional software packages allow the Nonwoven Application Package to be expanded to address full process integration. These enhancements include advanced control, display, communications, analysis, and database functions. The scalable architecture of the system enables these advanced functions to be added incrementally, as process and business requirements dictates, such as ability to interface via OPC to any line control.

STANDARD DISPLAYS

Profile	Setup
High Resolution	Frames
Zone	Sensors
Full	MD Control *
Split	Slit Roll Reports*
Zoom	
Freeze	
Roll Summary	Auto Control *
Current	Machine Direction
Previous	(MD)
Slit Roll Summary	
Single Point	Multicomponent
Sample Check	Analysis *
Trends	Recipes
Billboard	Alarms
Data	Messages
*Optional	Translations