

THERMO SCIENTIFIC ROOFING APPLICATION PACKAGE

PRODUCT APP50-13

The Roofing Application Package is an integral part of the core operating software for the system. It takes full advantage of the power of Wonderware® InTouch™ software. The application package is designed specifically for roofing lines and is further tailored for each specific application.

The Roofing Application Package defines basic real time measurement, network communications, data processing, and operator interface functions.

Optional enhancements, such as special displays, control, SPC, IndustrialSQServer™, third party I/O servers, etc., are available to expand the basic application package to a complete process management system.

Embedded in the Software Package is communications support for the system Ethernet network. The scalable nature of the system's architecture, coupled with the flexibility and expandability associated with the Application Package, allows the system to be adapted to evolving process and business requirements.

Two Zone Control of bitumen backcoating greatly improves product quality by adjusting the process to hold product profile flat and 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.

The Control ensures product uniformity and superior roll quality, resulting in quality improvement, scrap reduction, and bitumen savings for tangible economic returns.

FEATURES AND BENEFITS

- SYNCRO-SCAN eliminates sensitivity to backcoating roll run out.
- Supports network communications between distributed sensors, interface modules, controllers, and workstations
- Continuously monitors and preprocesses product and process data for historical viewing, archiving, reporting, and analysis
- Provides a set of standard user friendly displays configured specifically for roofing applications
- Defines intuitive touchscreen menu structure for accessing all of the system displays
- Provides a platform for optional display, control, reporting, and interface packages
- Industry best scanning frames suited for the Harsh Environment of roofing lines
- Optional scanning feature synchronized to bundle
- Two Zone Control option
- Feed forward gap control option
- Selectable lane control option

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DESCRIPTION

The Roofing Application Package provides the core system software. This application package is designed to take advantage of the power of Wonderware InTouch software.

Network Initialization

Upon power-up of the system network, the application package downloads device configurations to a distributed processor. The processor is then configured for scanner data acquisition, large scale process I/O, profile control or special communications.

Scanning Sensor Support

The Roofing Application Package provides full support of scanning sensors for online measurements of basis weight. Standard sensor processing features include automatic edge-of-sheet detection. Third party sensors can be integrated as well.

Distributed Data Acquisition

The Roofing Application Package provides support for distributed process inputs, which interface to the system. Communications to other system 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 temperature controllers and PLCs from operator displays.



Intuitive Display Structure

The system is designed to allow operators to easily navigate the system and access information quickly. This intuitive menu structure enables access to all process information through a split touchscreen. 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 Roofing Application Package to be expanded to address full process integration. These enhancements include advanced control, display, communications, analysis, and database functions. The system has scalable architecture, which enables these advanced functions to be added incrementally, as process and business requirements dictate.

STANDARD DISPLAYS

- Profile
 - High Resolution
 - Zone
 - Full
 - Split
 - Zoom
 - Freeze
- Roll Summary
 - Current
 - Previous
- Single Point
- Sample Check
- Trends
- Billboard
- Data
 - *Optional
- Set Up
- Frames
- Sensors
- Zone Control*
- Feed Forward Control*
- Reports
- Auto Control
 - Two Zone Control*
 - Feed Forward Control
- Recipes
- Alarms
- Messages
- Translations

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