

# THERMO SCIENTIFIC INSULATIONS MATERIALS APPLICATION PACKAGE-MAT PRODUCT APP50-30

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The Insulation Materials - Mat Application package is designed specifically for Insulation lines and is further tailored for each specific application.

The Insulation Materials – Mat 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 Insulation Materials – Mat Application Package supports measurements of Basis weight/Thickness, as well as constituent components in insulation materials.

The Applications Package also supports enhanced reporting capabilities such as quality reports with traceability, QC documentation using SPC and RQMS options etc.

MD Control 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 Industry, such as Roll Quality Management System Reports etc.

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

## FEATURES AND BENEFITS

- Application Package provides core operating software for insulation materials
- Accommodates the full line of sensors for measurements of Basis Weight/Thickness as well as 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 insulation material applications
- Provides a platform for optional special displays, control, reporting, and interface packages

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## DESCRIPTION

The Insulation Materials – Mat 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 Insulation Materials – Mat Application Package provides full support for the complete family of scanning sensors. Available online measurements include basis weight/thickness, moisture, color, fiber concentration, fiber blend, percent binders, 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 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 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	
<b>Profile</b>	<b>Setup</b>
High Resolution	Frames
Zone	Sensors
Full	MD Control *
Split	Slit Roll Reports*
Zoom	
Freeze	
Roll Summary	Auto Control *
Current	Machine Direction (MD)
Previous	
Single Point	
Sample Check	Multicomponent
Trends	Analysis *
Billboard	Recipes
Data	Alarms
*Optional	Messages
	Translations

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