



MCT360 NEAR INFRARED (NIR) TRANSMITTER

PRESSURE SENSITIVE ADHESIVES

EMULSION COATINGS * HOT MELT ADHESIVES



PRESSURE SENSITIVE ADHESIVES (PSA)

are a unique form of adhesive that are permanently tacky at room temperature. They adhere to substrates under pressure via polar attractive forces instead of forming chemical bonds. Most common substrates are paper, cloth, non-woven, film, elastomeric foam, and foils.

The **DIRECT METHOD** coats the PSA directly onto the face stock or substrate, such as tape. The **TRANSFER METHOD** coats the PSA onto a backing liner that laminates to the face stock, such as labels.

There are three main ways to apply PSA:

- **EMULSION COATING** applies the polymerized adhesive ingredients onto the web and is an excellent wet end coat weight measurement.
- **HOT MELT COATING** of polymers and copolymers is typically applied using a hot melt coater or extruder. This is an excellent thickness or coat weight measurement.
- **ORGANIC SOLVENT** method polymerizes adhesive that is applied to web and dried.

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MCT360 is a Near Infrared (NIR) Transmitter designed for rapid, on-line, non-contact water based coat weight and adhesive measurement.

The **MCT360** will accurately measure the water based emulsion coat weight on paper, in real time, and display the numerical value and trend on the remote Operator Interface (OI).

Our **GUARDIAN SCANNING FRAME SYSTEM** provides CD Cross Direction Web Profiles and Machine Direction Trending for multiple product, web widths, and recipes; with bright easy to understand graphic screens.

PROCESS SENSORS CORPORATION

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WET END EMULSION COAT WEIGHT MEASUREMENT AND HOT MELT THICKNESS ARE IDEAL APPLICATIONS FOR THE MCT360 NIR TRANSMITTER



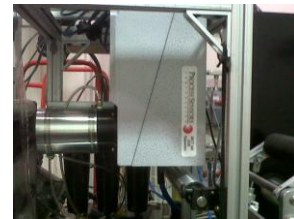
The **MCT360** measures water based **EMULSION COAT WEIGHT** on the wet end. The strong Near Infrared signature of water and known liquid/solids ratio allow for very fast and very accurate measurements in real time. Accuracies are typically +/- 0.15 gsm.

HOT MELT ADHESIVES have a very strong NIR signature in the H-C region and are very easy to measure, with accuracies in the +/- 0.3 gsm. Acrylates and other polymers are all straight forward measurements for the MCT360 NIR Transmitter.

HOT MELT COATER



MCT NIR TRANSMITTER



Paper, Film, Foil, Cloth, and other substrates are ideal applications for the **MCT360** NIR Transmitter. On-line NIR Coat Weight Measurement, or Hot Melt Thickness with the MCT360 **ALARMS** on out-of-spec product.

The **Operator Interface (OI)** displays numerical measurement value and allows for real time machine direction trending.

SYSTEM REQUIREMENTS

MCT360 mounted 6 to 16 inches of substrate.

Power: 90 -260 VAC 50/60 HZ, 40 watts (typical 110/120 VAC); 24 VDC option.

Dimensions For Mounting Transmitter:

10.6" x 6.9" x 12.5 " (MCT360)

SERVICES OFFERED

- Technical Support
- Installation and Setup
- Maintenance
- Guaranteed 24 Month Warranty

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