



## MCT360 NEAR INFRARED (NIR)

### WATER BASED COATING AND ADHESIVE TRANSMITTER

FAST \* ACCURATE \* RELIABLE

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

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

### WATER BASED COATINGS #/REAM, GSM, MILS

**WATER BASED ADHESIVES** are typically rubber based compounds that are water dispersed or water soluble. Water serves as the carrier fluid for the adhesive particles so that they can be uniformly applied onto a substrate of paper, film, foil, tape or cloth, etc.

**WATER BASED FILLERS AND STRENGTHENERS** are typically clay or chalk, and are used to coat paper for high quality printing. They may be bound to the paper by organic starches or synthetics.

**COPOLYMER WATER BASED EMULSIONS** allow bonding of films, coated papers, and metal foils that are more challenging for traditional adhesives.

- Polyvinyl Acetates
- Acrylics: Polymers and Copolymers (usually for PSA)
- Polyurethane Dispersions
- Natural Latex and Synthetic Rubber Lattices

# WET END WATER BASED COAT WEIGHT MEASUREMENT IS FAST AND EASY WITH THE MCT360 NIR TRANSMITTER



The MCT360 is ideally suited to measure water based 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.

Paper, Film, Foil, Cloth, and other substrates are ideal applications for the MCT360 NIR Transmitter. On-line NIR Coat Weight Measurement with the MCT360 **ALARMS** on out-of-specification coat weight changes.



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

Our Guardian Scanning Frame System provides cross web profiles for multiple product, web widths, and recipes; with bright easy to understand graphic screens.

Latex  
Polyurethane  
Clay

Acrylic  
Copolymer  
Pigments

PVA  
PSA  
Chalk

## 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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