

PROCESS SENSORS

C O R P O R A T I O N



World Leader in Advanced
Near Infrared Technology

MCT360 NEAR INFRARED (NIR)

PAPER MOISTURE TRANSMITTER

FAST * ACCURATE * RELIABLE

PROCESS SENSORS CORPORATION

113 Cedar Street

Milford MA 01757 USA

Tel: 508.473-9901

Fax: 508.473-0715

www.processsensors.com

info@processsensors.com

PROCESS SENSORS EUROPE

Unit 4, Adelaide House

Corbygate Business Park

Corby, Northants NN17 5JG

United Kingdom

Tel: 01536 408066

Fax: 01536 407813

infouk@processsensors.com

PROCESS SENSORS POLSKA EASTERN EUROPE

03-185 Warszawa

ul.Erazma 3 Zakroczmia 1 2

Lokal 2 Poland/Polska

Tel: 48.22.6739526

Fax: 48.22.6739527

Tomasz.stachowiak@processsensors.pl



PROCESS SENSORS CORP.

MCT360 is a Near Infrared (NIR) Moisture Transmitter designed for the Paper Products demanding environments.

The **MCT360** and **MCT330** will accurately measure moisture in paper, in real time, and display the numerical value and trend on the remote Operator Interface (OI).

CONVERTING:	0 - 10 %
PRESS SECTION:	35 - 65 %
DRYER EXIT:	0 - 10 %
RE-MOISTURIZING:	0 - 10 %

PAPER MOISTURE is a critical measurement in the manufacturing and converting of paper products.

Paper is generally two sided, with a wire and felt side, that absorb moisture unevenly.

Important conditioning steps needed to control wavy edges and curl, prior to print work and converting, are all impacted by moisture content.

Re-moisturizing stations benefit from moisture measurement that allows control of the applicator roll and web speed.

Water based coatings can be measured in #/ream, gsm, mils, or other engineering units.

PRINTING PRESS



PAPER MOISTURE MEASUREMENT IS CRITICAL TO IMPROVE PRESS AND PRINTING PERFORMANCE



The **MCT330HD** (Heavy Duty) is ideally suited for moisture measurement in the harsh environment at the **Press Section**. The MCT330HD is enclosed in a stainless steel housing with an air purge assembly, and is designed to work reliably in high temperature wash-down environments.

Sizing is usually a starch addition to the cellulose fibers to create a moisture barrier surface. This is important to prevent the absorption of ink, minimize bleed, and to retain detail in the printing process. The **PSC-CS-Laser IR** is a self contained IR Thermometer with precision dual laser targeting well suited for this application.

Converting and Re-Moisturizing are ideal applications for the **MCT360** NIR Transmitter. On-line NIR Moisture Measurement with the MCT360/330 **ALERTS** on moisture spikes, **ALARMS** on extreme moisture level changes, and provides real time graphical trending with the Operator Interface (OI).

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



SYSTEM REQUIREMENTS

MCT360 mounted 6 to 16 inches distant from paper.

Plant Air for 330 HD air purge to reduce maintenance.
Air Purge Diffuser requires 5 psig and 2 l/m.

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

Mounting Transmitter Dimensions:

10" circular radius x 7 " (MCT330 HD)

12.5" x 6.9" x 10.6 " (MCT360)

One inch pipe mount.

SERVICES OFFERED

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

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