

Buenos Aires, Argentina Tel.: (54 - 11) 5352-2500 Email: info@dastecsrl.com.ar Web: www.dastecsrl.com.ar



Tobacco Moisture Transmitter

MCT460-T Improvements

- · Processing electronics upgraded and optimized to improve sensor performance and flexibility
- New micro controller, high performance, dual core architecture. One core dedicated to NIR signal acquisition, the other programmed to manage computations and communications options
- Samples entire NIR signal train for increased measurement accuracy
- USB connectivity
- · Embedded bootloader allows sensor firmware to be upgraded through USB or serial interface
- · Filter wheel speed adjustment through software
- Improved PbS detector temperature control for enhanced stability in arduous environments
- · Built in data logger for measured constituents and sensor diagnostics
- IP67 cast aluminum enclosure

Nova Series

Reliable, Proven, Flexible Design

Smart Sensor Technology - The MCT460-T is a true stand-alone NIR Transmitter in a IP67 cast aluminum enclosure. A single, proprietary circuit board drives the measurement along with all analog and digital communication. Includes 4-20 mA. 0-10 volts. RS-232/485 or network interfaces such as Ethernet. Profibus, etc. There is no requirement for any intermediary electronics.

MCT 460-T System - The MCT460-T can be configured to connect directly to an Operator Interface. The Operator Interface will power the MCT 460-T Transmitter. All analog, digital and field bus information is generated by the operator interface.

Wide Spectrum Referencing - The MCT460-T incorporates a unique reference filter to monitor the tobacco reflectance properties across the complete near infrared (NIR) spectrum. The filter minimizes the influence of tobacco color, blend or type on the Transmitter's reading.

Measurement Speed - A proven, reliable high speed filter wheel assembly is combined with a state-of-the-art proprietary single detector optical system. This fast sampling technique reduces measurement noise and produces an accurate and repeatable on-line signal. The filter wheel speed is optimized and adjustable through software.

Product Temperature Monitor - The MCT460-T can be configured to monitor and display tobacco temperature in Fahrenheit or Centigrade. The temperature sensor is contained in the MCT460-T enclosure. No additional hardware or wiring is required.

Cooling Panel & Air Purge - Included as a standard part of the MCT460-T

Accurate, Reliable and Stable Moisture Measurement for all Tobacco Processing Applications

The **MCT460-T** is simple to install and may be used at any stage of tobacco processing, with all types of tobacco applications, including:

- · Whole Leaf
- Reconstituted
- · Finished Cigarette Tobacco

- Whole Stems
- · CRS

· Pipe Tobacco

- Cut Stems
- Expanded
- · Cased Burley · DIET

- · Cigar Filler
- Snuff

- · Lamina Strips
- · Chewing
- · Cut Lamina



· All Analog Outputs, Digital and Bus interfaces directly from the Transmitter

Configuration

 5.7" Operator Interface/Display (optional)





System MCT460-T Configuration

- Transmitter connects to Operator Interface
- Transmitter powered from Operator Interface
- · All Analog Outputs, Digital and Bus interfaces from Operator Interface
- · Large 5.7" high resolution Touchscreen







Computer Software

Process Sensors Corporation (PSC) Viewer Software is a proprietary Windows-based package. It monitors all MCT460-T functions and allows an operator to insert set-up parameters, perform or adjust calibrations,



select product codes, examine internal diagnostic values and view trends of moisture and temperature.



NOVA SERIES

MCT460-T TOBACCO MOISTURE TRANSMITTER

The Innovative New NOVA Series

The **MCT460-T** measures moisture, the most critical variable in a tobacco processing plant. The MCT 460-T provides accurate, reliable and stable outputs for measurement and control. The MCT 460-T can also be configured to continuously monitor tobacco temperature. Delivered pre-calibrated and with a comprehensive 2-year warranty, the MCT460-T is simple to install and may be used at any stage of tobacco processing.

DASTEC S.R.L.

Representantes / Distribuidores Exclusivos

Buenos Aires, Argentina Tel.: (54 - 11) 5352-2500 Email: info@dastecsrl.com.ar Web: www.dastecsrl.com.ar

HEADQUARTERS

United States

Process Sensors Corporation 113 Cedar St. Milford, MA 01757 USA Tel: (508) 473-9901 Fax: (508) 473-0715 info@processsensors.com

Europe

Process Sensors Europe
Unit 4, Adelaide House
Corbygate Business Park
Corby, Northants NN17 5JG UK
Tel: 01536 408066
Fax: 01536 407813
infouk@processsensors.com

Eastern Europe

Process Sensors Polska ul. Erazma z Zakroczymia 12 lokal 2 03-185 Warszawa Tel: (48) 22 6739526 Fax: (48) 22 6739527 Gsm: (48) 509 202759 tomasz@processsensors.com

ASIA - Process Sensors Asia PT 2328 Pinggiran Golf Kemumin, Pengkalan Chepa Kota Bharu, Kelantan 16100 Malaysia T: 011 60 17620-2806 Fx: 011 60 6601 4588 hussin@processsensors.com

Specifications: MCT460 NIR Transmitter

Measurement Range:	0 - 60%
Measurement Accuracy:	+/- 0.1 to 0.5%
Repeatability:	+/- 0.10%
Product Distance:	8-18 inches (200-450mm)
Calibration Codes:	100
Response Time:1-99	9 seconds. Three modes available
	Damping, integration and gated.
Power:	_ 90-260VAC, 50/60 Hz, 40 watts
Outputs:4-20mA, (0-10V (isolated), RS-232 & RS485
Weight:	19 lbs. (8.6kg)
Ambient Temperature:	0-50 °C (32-120°F) with water
	or air cooling up to 80°C (160°F)
Enclosure:	IP67, Cast Aluminum
Window Purge:	Airpurge Diffuser

Specifications: Operator Interface

Display:	5.7 inch Color Touchscreen LCD
Languages:	User Selectable
Power:	From MCT460-T Sensor or Local
Cable:	10 ft (3 meters) standard
Enclosure:	Cast Muminum

Maintenance:

Warranty:	24 months Parts/Labor
Routine Cleaning:	None Required
Calibration Verification:	Calibration Check Standard
Cooling	Vortex Air Cooler (optional)

CE Compliance:

EMC Directives EN50081-1 & EN50082-2, EN61010-1 Low Voltage Directive

Databus & Software Interfaces:

Optional Bus Interfaces:	ProfiNet, ProfiBus, Ethernet IP
	Modbus TCP, DeviceNet
Software:	Window-based Stand-alone Program
	or OPC-DDE Server

Dimensions: MCT460-T





All Power and Interface Connections on Rear Panel

Operator Interface



For more information on Process Sensors products, visit our website at:

www.processsensors.com

