

# ST-3300



## Full Moisture Penetrating RF Technology

a  **KPM**  
ANALYTICS brand



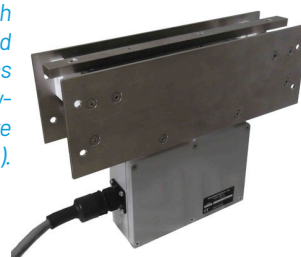
## Control Moisture at Critical Stages in Your Process

### OVERVIEW

The ST-3300 is a smart analyzer for process moisture measurement and control of materials used in chemical, mining, textiles, agriculture, and other industries. Used by quality assurance professionals, the ST-3300 improves methods for controlling moisture at key areas in a manufacturing process, helping operations conserve energy, reduce waste, increase capacity, and generate revenue.

As a radio frequency dielectric measurement (RF) technology, the ST-3300 provides a rapid and complete moisture measurement of products at full line speeds.

*ST-3300 with attached electronics (low-temperature applications).*



*ST-3300 in a high-temperature application.*



### APPLICATIONS

Since many materials used in an industrial process have quality standards relating to moisture, the ST-3300 is a smart, simple, and effective solution to help operators manage moisture monitoring.

Common applications for the ST-3300 include:

- **Lumber and wood:** Saw dust, hog fuel, veneer, plywood, biomass, wood pellets
- **Building products:** Gypsum products, brick, board products
- **Textile mill products:** Broad-woven fabric, non-woven fabric
- **Paper products:** Pulp, paper, paperboard, containers & boxes, converted paper & paperboard products

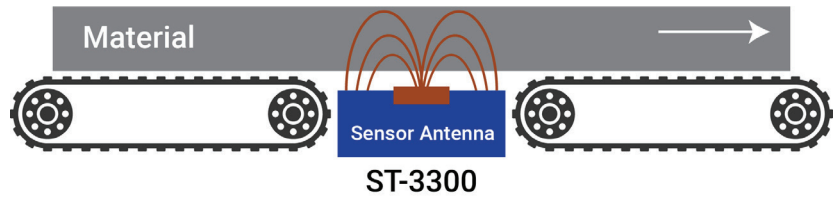
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### FEATURES

- Signal processing capabilities can be integrated into transmitter electronics
- Mounting options available to accommodate diverse process locations
- Interfaces directly with your preferred HMI (PC, PLC, and optional 12" touch screen display)
- Advanced digital conditioning for improved standard of resolution
- Optional product temperature measurement capabilities available

## RADICALLY IMPROVED RF RESOLUTION & STABILITY

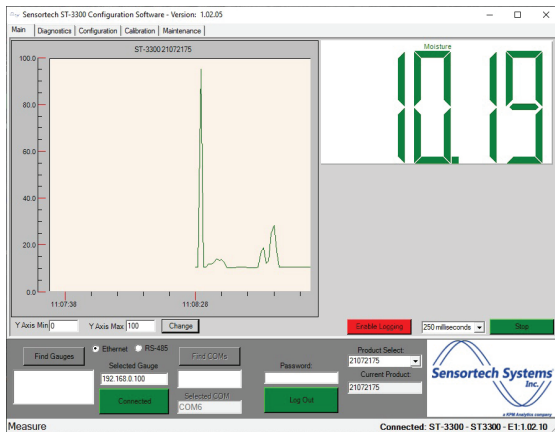
The ST-3300 features a patented RF measurement principle enhanced by all-digital phase-lock loop signal conditioning, presenting a higher standard of resolution and stability. Signal processing capabilities are integrated into the transmitter electronics, which interfaces directly with your preferred HMI.



The ST-3300 is an open-frame configuration that is installed between conveying belts or rollers exiting or entering a kiln or dryer. Antenna lengths are available from 15 – 244 cm (6 – 96 in.) dependent upon temperature.

## INTUITIVE ANALYSIS SOFTWARE

The ST-3300 includes a powerful configuration software package that provides management utilities for all sensors in your process through a laptop, PC, or optional touch screen display. Moisture and other parameters are displayed in a clear and easy-to-use interface.



PC interface



Optional touch screen interface

## SPECIFICATIONS

Name	Specification
Power	110/240VAC, 50/60 Hz, 30 Watts
Antenna Lengths	Low Temperature = 15.2 cm (6 in.), 30.5 cm (12 in.), 61 cm (24 in.), 66 cm (26 in.), 122 cm (48 in.), 244 cm (96 in.) High Temperature = 61 cm (24 in.), 122 cm (48 in.), 183 cm (72 in.), 244 cm (96 in.) Ultra High Temperature = 122 cm (48 in.), 152 cm (60 in.)
Sensor Temperature	Low: 0-60°C (32-140°F); High: Up to 260°C (500°F); Ultra High: Up to 540°C (1000°F)
Sampling Rate	Moisture ±0.05% - 0-1% Range; Moisture ±0.10% - 0-10 % Range; Moisture ±0.25% - 10-30% Range; Moisture ±1.00% - 30-60% Range
Accuracy	Gypsum Board = ±0.02%; Wood Panel Board = ±0.10%, both subject to the application
Resolution	Moisture ±0.02%
Communication	Standard I/O: 1 4-20mA Output, 1 RS-485 Full Duplex, 1 Digital Input, 1 Product Temp Input, 1 Ethernet TCP/IP Advanced I/O: 2 4-20mA Outputs, 2 Digital Inputs, 1 Product Temp Input



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