

# SCIENTA ONLINE MICROWAVE SENSORS FOR ACCURATE TOTAL MOISTURE



- ✓ **Ultra-wide measuring range variations**
- ✓ **Total moisture analysis: insensitive to additive, thickness and color variations**
- ✓ **More accurate online measurements with less calibration needs**





## MEASURING METHOD

The microwave measurement method is based on the dielectric constant of materials. Water molecules have a much higher dielectric constant value than fibers and different type of fillers. Frequencies and other measured raw data are analyzed with very sophisticated algorithms. This is possible because of a new, digitally controlled high frequency technology.

## BENEFITS

to all process applications and specialty applications such as resin impregnation & pulp drying.

- Larger cavity 7250SL model available for pulp mill installations (wet end)
- Ultra wide measuring range
- Service free construction
- Easy and convenient to install and operate
- Full range of scanners available
- Easy calibration and setup
- Insensitive to different types of additives, thickness and color variations
- More accurate on-line measurements
- Faster on-spec quality and reduced start up waste
- Reduction in rejects due to high performing measurements
- Minimization of energy consumption by accurate and reliable Moisture and Basis Weight measurements and controls
- Machine speeds can be increased on drying limited pulp and paper machines
- New optimizing tool for pulp drying lines

## TECHNICAL SPECIFICATIONS

Sensor Type	7250S	7250C
Construction 1	Double sided	Single sided
Construction 2	Non Contact	Contact
Moisture Range	2 – 60 %	4 – 70 %
Meas Frequency	40 Hz	80 Hz
Temperature Compensation	Yes	N/A
Meas Gap	13mm	-
X-Y-Z Compensation	Yes	-
Installation	Scanning/Fixed	Scanning/Fixed

Sensor Type	7250S	7250C
Power Consumption	12 W, 24 VDC	10 W, 24 VDC
Interface Options	Profibus	Profibus
	Modbus	Modbus
	Ethernet	Ethernet
	USB	USB
	2 x analog	2 x analog
Environmental Conditions	10-60 °C 10-95 % RH	10-60 °C 10-95 % RH
Liquid Cooling	Optional	Optional