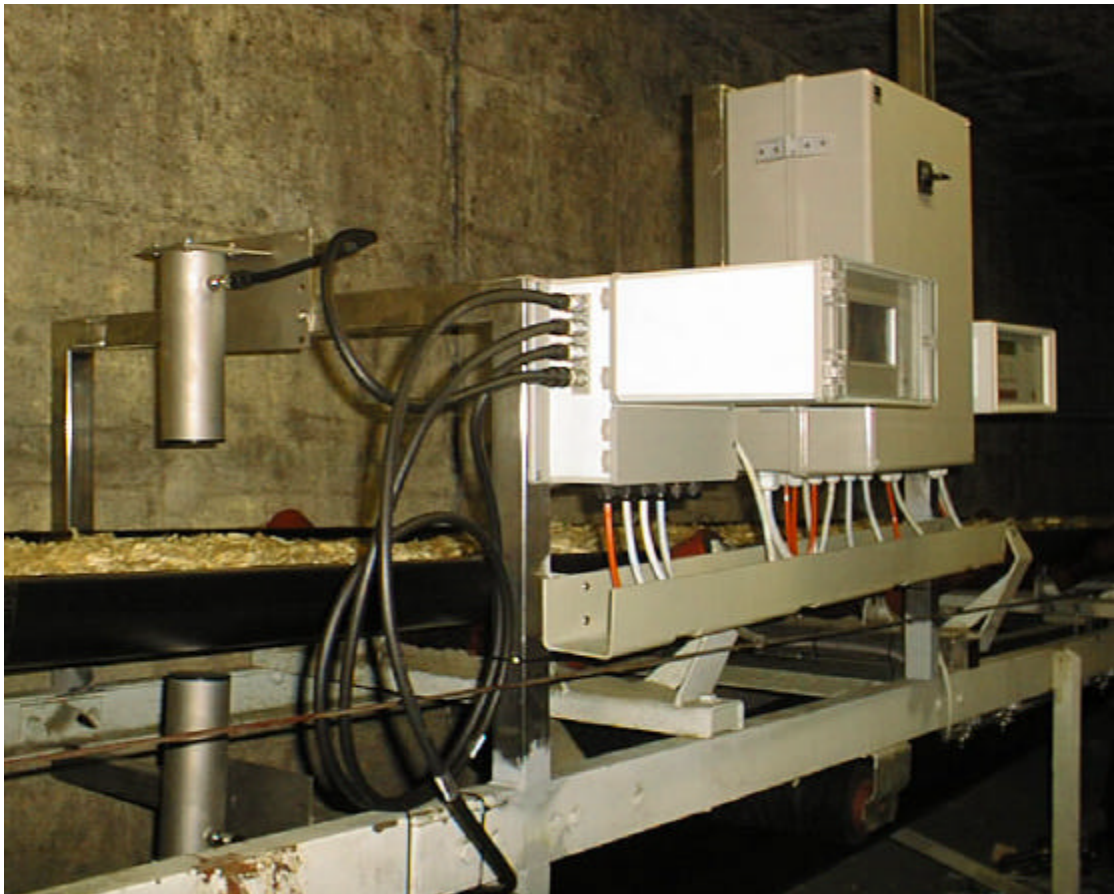


# Microwave Moisture Measurement of wood chips in the Paper Industry



## Advantages:

- **accurate** high selectivity on water  
accuracy < 1,5 %
- **inline** contactless measurement directly at the existing  
conveyors without extensive mechanical sampling  
devices
- **representative** sensing of a large percentage of the material flow  
due to the transmission geometry. The whole  
volume, not only the surface is analyzed
- **no radio-active source** alternatively an electro-mechanical belt weigher can  
be used to correct the variation of the area weight



# Technical Specifications

## PMD 2450

cabinet	protection IP 65	weight 9.0 kg dimension 30.5*24*37.5cm ( H * W * D)
display	touch screen 114mm x 64mm graphical display 128 x 256 Pixel	display back light with automatic shut down touch screen Matrix 6 x 16
power requirement	90 - 260 Volt AC, 45 - 65 Hz	
measuring principle	microwave-transmission measurement: The measured material is transmitted with microwaves.	attenuation and phase shift caused by the material is determined.
microwave	frequency: 2.4 - 3.0 GHz transmitted power: < 0,01 mW dynamic range: 50 dB	precision: < 0,2 dB, < 0,2° / GHz synchronisation with optional weight compensation.
I/O connectors	microwave	2 N-connectors for input and output 2 N-connectors for reference cable
	counter: area weight compensation tachometer	max. 6 counters 16 bit opto-coupled pulse width > 0,5 µs voltage 4,5 V - 30 V
	digital input signals measurement (start/stop) sampling (start/stop) batch (start/stop) belt signal (start/stop)	8 digital input, opto-coupled
	digital output signals alarm outputs system error manage	4 digital output open collector opto coupled or relays
	analogue input signals area weight compensation temperature	2 x 0/4 - 20 mA oder PT 100 analog input, 12 bit, galvanically isolated
	analogue output signals	4 x 0/4 - 20 mA analogue out, 12 bit, galvanically isolated
	serial interface	1 serial interface alternatively RS 232 or RS 485
sensor	different antennas or measuring cells	

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