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# French fries

## ONLINE-MOISTURE Measurement

### PMD 2450-S

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### Precision Microwave Measurement

- Amortization within a few weeks only
- Optimization of the Efficiency
- Control of Dryer and Fryer
- Control of the Dry Substance on-line
- Tracing and Tracking of the Process flow

### Advantages:

- **precise**  
highly selective on water
- **inline**  
contactless measurement of solids directly at the existing conveyor 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 analysed.



# Technical Specifications

## PMD 2450-S

cabinet	protection IP 65	weight 9.0 kg dimension 30.5*24*37.5cm ( H * B * T )
display	Touchscreen 114mm x 64mm graphical display 128 x 256 Pixel	display back light with automatical shut down Touchscreen Matrix 6 x 16
power requirement	90 - 260 Volt AC, 45 - 65 Hz	
measuring principle	microwave-transmissionmeasurement: 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 tacho	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 relais
	analog input signals area weight compensation temperature	2 x 0/4 - 20 mA oder PT 100 analog input, 12 bit, electrically separated
	analog output signals	4 x 0/4 - 20 mA analog out, 12 bit, electrically separated
	serial interface	1 serial interface alternatively RS 232 or RS 485
	sensor	different antennas or measuring cells

## Service

Remote service is available for all instruments over modem. This saves time and money.

representative:



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