

PMD 2450 Precision Microwave Device



Online Microwave Moisture Measurement

accuracy of up to 0,1 %

- moisture content of non- and low- conductive materials
optional: area weight compensation
- density of aqueous solutions / Brix
- concentration of aqueous solutions
optional: compensation of air bubbles
- carbon in flyash



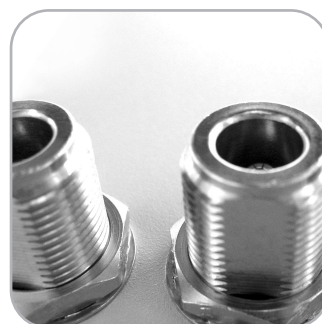
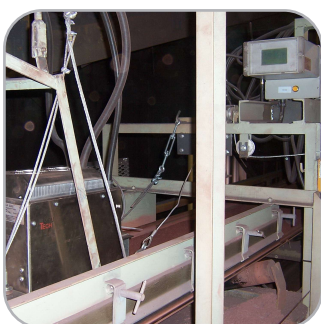
Advantages:

- **precise**
highly selective on water
- **inline**
contactless measurement of solids directly at the existing conveyor without extensive mechanical sampling devices.

Measurement of fluids directly in pipes.
- **representative**
measuring a large percentage of material due to the transmission geometry.
The whole volume is analyzed, not only the surface .

application examples:

coal | minerals | iron ore | magnesite | wood chips | pulp | woodboards | gipsumboards |
steel industry | cement industry | building industry | mining | coal power station | paper industry |
chemical industry | wood industry | food industry



Technical Specifications PMD 2450

cabinet	protection: IP 65	weight: 9.0 kg dimension: 30.5*24*37.5cm (H * B * T)
display	touch screen: 114mm x 64mm graphical display: 128 x 256 Pixel	display back light with automatical 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	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-decoupled, 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 inputs, opto-decoupled
	digital output signals: - alarm outputs - general fault signal	4 digital outputs open collector opto-decoupled or relays
	analog input signals: - area weight compensation - temperature	2 x 0/4 - 20 mA or PT 100 analog input, 12 bit, in common potential-free
	analog output signals	4 x 0/4 - 20 mA analog out, 12 bit, in common potential-free
	serial interface	1 serial interface, alternatively RS 232 or RS 485
sensor	various antennas or measuring cells	

Remote service

is available for all instruments via modem or internet. This saves time and money.

This device is also available with explosion protection for Zone 1 and 2 as well as Zone 21 and 22.

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