

MMW-9

Moisture Measurement System

- Microwave contact-free measurement
- Transmission or Reflex
- Insensitivity to variations of water composition
- Excellent accuracy

METHODE:

Water has clearly defined resonance bands in the microwave range of the electromagnetic spectrum.

MMW-9 exploits this feature in order to establish a very robust method to measure the water contents (gr/m²) of several kind of webs and products.

The measuring heads work continuously on-line and they are designed to operate in harsh industrial environments.

APPLICATIONS: Paper, cardboard's, wood, textile, nonwoven, mineral wood, construction materials, food, etc.

COMPONENT PARTS:

The measurement heads placed upper and lower of the web/product can be used as stand-alone measuring system providing an analogue output in the range of 0-10 VDC resp. 0/4-20mA or they can be integrated into the META versatile QMS-9000 quality control system. Scanners or C-frames are available for fix-position or cross-scanning measurements and controls.



TECHNICAL SPECIFICATIONS:

Dimensions (h x w x d) [mm] :

Transmitter/receiver: 250x300X210

Weight ≈ 12 Kg

Measuring Ranges:

MMW-9: 0-5.000 gr/m² H₂O

MMW-2: up to 35 kg/m² H₂O

Transmitter/Receiver Clearance:

100 – 300 mm

Measuring Spot: ≈ 75 x 39 mm

Measurement Options:

Transmission or reflex

Uncertainty: Reproducibility

2σ ≤ 0.5% on 1 sec basis

Correlativity to lab

2σ ≤ 0.5% on 1 sec basis

Outputs: 0-10 V-0/4-20 mA

Power Supply: 24 VDC (Option 230/110 VAC, 50/60 Hz)

Enviromental Conditions:

Up to 40 oC (no cooling required),
0-95%r.H.