



Microwave Sensing Head

MOIST R1M

Description

Microwave Sensing Head for Moisture Measurement in the surface layers of the material under test.

The robust sensing head is used for moisture measurements in solids and bulk goods, where measurement volume of 20 cm³ is desired. MOIST R1M is a stray field microwave applicator with penetration of the microwave up to 3 cm into the material.

The material-specific calibration allows exact and reproducible moisture measurements under difficult circumstances.

MOIST R1M can be combined either with the microcontroller based handhelds of the MOIST series or with the online control unit MOIST CONTROL 100. In online applications MOIST R1M is flange mounted and has a Teflon or ceramic based dielectric cover.



Fields of Application:

Materials: Wood
Building Materials, Walls
Bulk Goods
Grain
Planar Materials
Other Materials on Request;
(Customer-specific adaptation and calibration)

Moisture Range: 0% < Moisture < 400% dry basis, material-specific
0% < Moisture < 80% wet basis, material-specific

Accuracy: 0.1 ... 0.5 % achievable, material-specific

Measuring Vol.: 20 cm³

Penetration Depth: material-specific, up to 1.2" (3 cm)

Temperature Range: 41°F ... 122°F (5 ... 50°C)

Microwave Power: 0.1 mW

Technical Data:

Power: by handhelds MOIST 250 and MOIST 350

Dimensions: 5.1" x 2" (130 x 50 mm) 8.8 oz (250 g)