



Microwave Sensing Head

MOIST S

Description

Microwave Sensing Head for Moisture Measurement in deep material zones.

The robust sensing head is used for moisture measurements in solids and bulk goods. It covers a cylindrical measurement volume of 40 to 50 l as desired. MOIST S is a radiation field microwave applicator with penetration of the microwave up to 80 cm into the material.

Because of the high penetration depth the sensing head will be calibrated only on customer's request. It is suited best for relative measurements in very thick materials.

MOIST S can be combined with the microcontroller based handhelds of the MOIST series. In combination with other sensing heads of the MOIST series material investigation in different depth layers is possible.



Fields of application:

Materials:

wood
building materials, walls
concrete buildings
ceramics
plastics and synthetics
soils
floors
other materials on request
(customer specific adaption and calibration)

Moisture range:

0% < Moisture < 400% dry basis, material-specific
0% < Moisture < 80% wet basis, material-specific
non material-specific calibrated

Accuracy:

Measuring volume:

50 l

Penetration depth:

material-specific, up to 31.5"

Temperature range:

32°F ... 158°F (0 ... 70°C)

Mikrowave power:

0.1 mW

Technical Data:

Power:

by handhelds MOIST 100, MOIST 200

Dimensions:

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

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