



Laboratory Moisture Measuring

MOIST xLAB 100

Description

Microwave based moisture measuring instrument for laboratory applications and near-process moisture investigations.

The compact and robust instrument can be used for fast moisture measurements in solids, bulk goods and planar materials. It measures moisture depending on the microwave sensor used in a sample volume starting from some mm³ to 1 l. One reading takes only one second. The measurement detects both moisture at the surface and in the core of the sample. Customer specific material calibrations allow exact and reproducible measurements.

MOIST xLAB is an intelligent device with integrated microcontroller. In simple applications it can be used in stand-alone mode. For more complex moisture measuring tasks, the time dependent monitoring of moisture or better documentation of measurements the combination with the software MOIST LAB TERMINAL is recommended.



Fields of Application: according to used microwave sensor

Materials:

Bulk Goods
Grain, Agricultural Products
Food
Chemical and Pharmaceutical Products
Wood and Wood Materials
Building Materials
Sheet Material
Other Materials on Request

Moisture Range:

selectable sub-ranges, depending on product and sensor
Total 0% < F < 80% (wet base), material dependent

Accuracy:

0.1 ... 1.0 % absolute achievable, material dependent

Reproducibility el.:

0.1 %

Measuring Volume:

0.1 cm³ ... 1 l, depending on sensor

penetration depth:

material dependent, up to 25 cm

Temperature Range:

0°C ... 70°C (sample temperature)

Microwave Power:

0.1 mW

Technical Data:

Power:

110 - 230 VAC, 50 - 60 Hz / 40 W

Interface:

USB 2.0 B

Memory:

100.000 Readings

Measuring time:

1 Second (5 sec for one 3 readings measurement cycle)

Calibrations:

24 Materials

Protection:

IP40

Size:

350 x 250 x 100 mm³;

Weight ca. 3,5 kg

Sample Beaker 80 ml (in combination with MOIST RP)

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