



Handheld Microwave Moisture Mapping System

MOIST 350 B

Description

Portable Moisture Measuring System for non-destructive moisture measurement and moisture mapping in civil engineering.

The microcontroller based device works with the robust microwave sensors of MOIST xM-series with different penetration depths, manufactured according to industrial precision standard. The sensor calibration is carried out in accordance to the WTA rules. The direct comparison of the measured values of the various sensors is possible, even if relative measurements were used without calibration.

Internal data processing enables visualisation of moisture maps directly in the handheld, i. e. at the place of measurement. Statistical parameters support the analysis. Referencing to destructive measurements can be accomplished in the software.

Fields of Application:

Materials: Wood, Building Materials, Walls
Gypsum Floor, Cement Floor
Concrete (as specific calibration)
Insulation materials
Calibration according to WTA rules
Other Materials customer-specific

Leakage Detection
Moisture Mapping in different depth layers

Moisture Range: 0 % < F < 80 % (wet base), 0 % < F < 400 % (dry base)
Accuracy: 1 ... 2 % achievable, material-specific
Penetration Depth: Material-specific
MOIST PM V2 up to 20 - 30cm
MOIST R1M V2 up to 2 - 3 cm
Temperature Range: 5 ... 50 ° C

Technical Data:

Power: 4 x 1,2 V (AA-NiMH-accumulators)
Operation: 8 hours standby or 4 hours of continuous measurement
Memory organization: < 1 Mio. Readings continuously numbered or < 1 Mio. readings in max. 1000 measuring arrays of arbitrary size

Dimensions: Handheld 195 x 95 x 40 mm 500 g
Sensing heads 130 x 50 mm 250 g

Interface: USB
Display: TFT, 320 x 240, 256 colours max.

Specification:

Components of delivery: Microcontroller based handheld MOIST 300 with highlighted 3,5" graphical display
Microwave sensor MOIST PM V2 for volume moisture measurement
Microwave sensor MOIST R1M V2 for surface moisture measurement
USB interface cable
Software MOISTANALYZE 3.2x
Integrated charging circuitry, power plug, carrying case

Options: Microwave sensors MOIST R2M V2, MOIST DM V2, MOIST SM
Microwave penetration applicator MOIST ENDO
Humidity measurement with sensor MOIST RH

