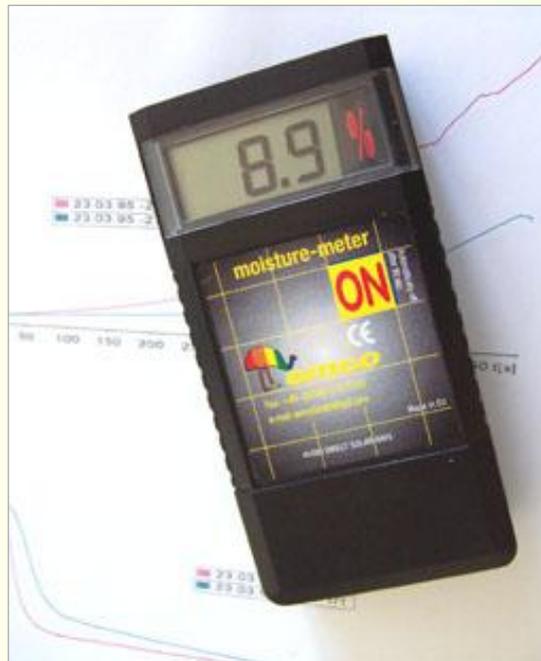


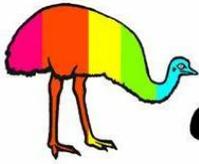
Paper – Moisture - Measurements P2 and P4

Measurement of moisture of paper

for the fast, non-destructive and mobile measurement
in stacks and rolls



- ✓ Easy, robust and transportable: attaching - reading
- ✓ Fast and non-destructive measuring
- ✓ Measuring depth of 13 mm
- ✓ Characteristic curves for different materials
- ✓ Calibrated work side
- ✓ Moisture displayed in % water (percent by weight)



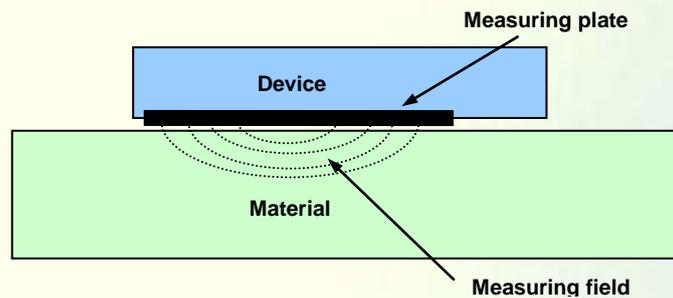
Construction and function

The absolute humidity is the percentage water content in a material, based on dry weight (for wood) or on the total weight (for paper common).

The material situated in the measuring field is penetrated by an electric field. Because of the distinctive polarity of the water molecule and the resulting high dielectric constant of water (about 83) the capacitance of a measuring field changes with the change of the moisture of the sample. In the handheld instruments measuring signal is related to a constant volume, and thus calculates the moisture value. The measuring field to a depth of 13 mm should be filled completely with the measured samples.

Significant impurities, such as conductive films, metals, etc. lead to very different readings or unit shutdown.

For basic calibration of the characteristic curves, the gravimetric method EN 20287 (oven method) was used as the reference method. The devices are adjusted with standardized materials, preferably with a special polypropylene plastic plate.



Technical data

Equipment type P2

mainly for nature and bogus paper, cardboard etc.

Measuring area: 3 – 10 % paper moisture

Measuring depth: 13 mm

Equipment type P4

mainly for coated, graphic paper and coated cardboard

Measuring area: 3 – 8 % paper moisture

Measuring depth: 13 mm

