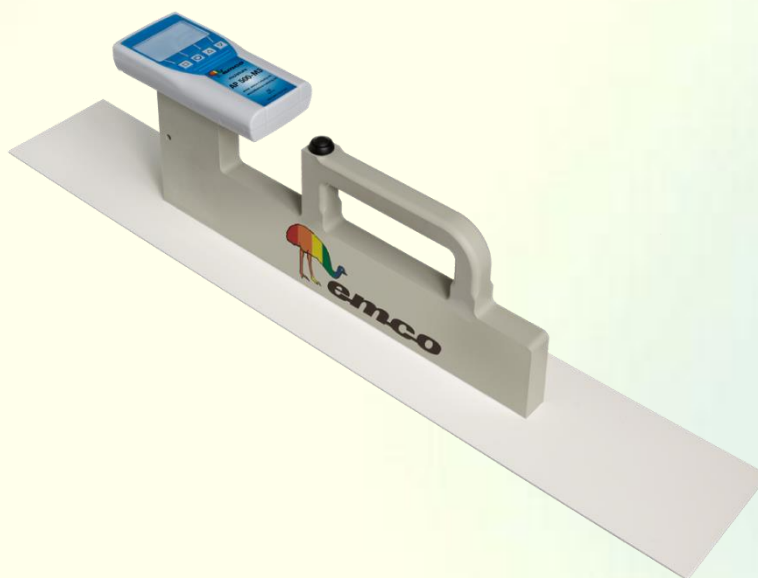


emco AP 500-M2

Device for moisture determination in waste paper

**Fast mobile moisture determination without sampling,
for detecting moisture in stacks and bales**



- Lightweight, rugged and mobile: feed – detection – storage
- Quick and easy one-hand-operation with integrated storage button
- Non-destructive measurement down to a depth of effectively 300 mm
- Characteristic curves for different materials and compressed densities
- Digital index in % water content (weight per cent)
- Temperature value to each moisture value
- Temperature compensation of the moisture value

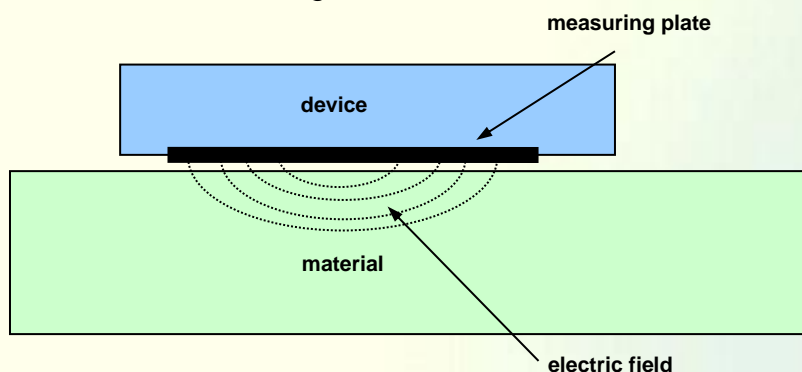
The used principle to determine the absolute moisture

The absolute moisture is the percentage water content in a material referring to the anhydrous mass (common for timber) or the total weight (common for paper).

The measuring principle:

The material in the measuring area is penetrated by an electric field. As a result of the distinctive polarity of the water molecule and the resulting high dielectric coefficient of water (approx. 83) the capacitance of the measuring area varies with the change in moisture of the sample being measured. With hand-held measuring instruments, the measuring signal is related to a constant volume and thus the moisture value is calculated. The measuring field up to a depth of 500 mm should be completely filled with the sample material to be measured.

Considerable impurities, such as conductive foils, metals, etc., lead to extremely deviating measured values or to the device being switched off.



Technical data

Measuring range:	1 - 50 % moisture (kind dependent)
Measuring depth:	300 mm effective, 500 mm max.
Operating temperature:	0 °C up to +50 °C
Storage temperature:	-20 °C up to +80 °C
Temperature compensation:	automatic
Resolution:	0.5 % moisture 0.5 °C temperature
Menu language:	EN, DE, FR, IT, ES, RU
Power supply:	battery-operated
Current consumption:	30 mA
Measured data storage:	approx. 10,000 measurements
IP-code:	IP 40
Dimension:	620 x 100 x 150 mm ³
Weight of device:	900 g
Scope of delivery:	device in case with test plate and certificate, accessories

