

emco AP 500-M2

Device for moisture determination of waste paper

Quick mobile moisture determination without sampling,
to detect moisture in
stacks and bales of paper for recycling



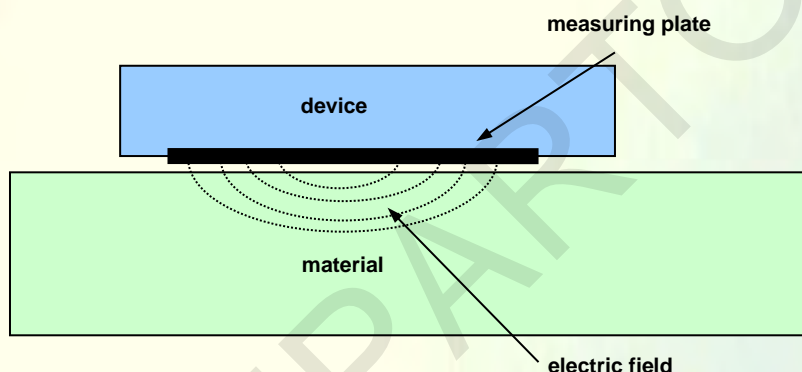
- Lightweight, rugged and mobile: feed – detection – storage
- Quick and easy one-hand-operation with storage button in the handhold
- Non-destructive measuring up to 300 mm deep effective
- Characteristic curves for different materials and compressed densities
- Digital index in % water content (weight per cent)
- Temperature value to every moisture value
- Temperature compensation of the moisture value

The used principle to determinate 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 situated in the measuring area is penetrated of an electric field. Due to 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 alteration of the moisture in the test sample. Portable measuring instruments refer the measuring signal to a constant volume and assess the moisture values therewith. The measuring field till a deep of 500 mm should be filled completely with the measured sample material. Considerable vitiations like conductive foils, metals and so on lead to extreme differing values or to cut-off of the device.



Technical data

Measuring range:	1 - 50 % moisture (kind dependent)
Measuring depth:	300 mm effective, 500 mm maximal
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:	English, French, German, Italian, Spanish, Russian
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

