

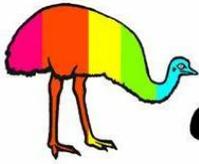
emco AP 500

Device for moisture determination of waste paper

**Quick mobile moisture determination without sampling,
to detect moisture in
stacks, bales and loose fills of waste paper**



- Lightweight, rugged and mobile: feed – detection
- Quick, non-destructive measuring up to 300 mm deep effective
- Factory-made calibration for different material and compressed density
- Digital index in % water content (weight per cent)
- Temperature compensation of the moisture value

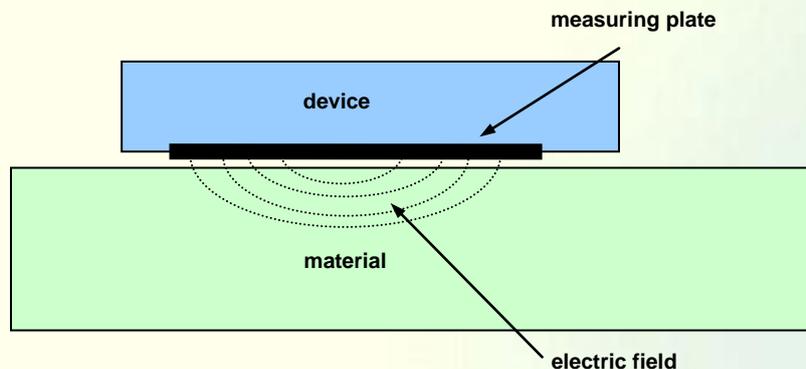


The used principle to determinate the absolute moisture

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:	4 – 50 % moisture
Measuring depth:	300 mm effective, 500 mm maximal
Operating temperature:	5 °C up to +35 °C
Storage temperature:	-20 °C up to +80 °C
Temperature compensation:	automatic
Resolution:	1 % moisture
Power supply:	9V battery alkaline or NiCd-Accu
Current consumption:	5 mA
Automatic shutoff:	after 90 seconds
Loading condition of battery:	empty = display "BAT"
Dimension:	620 x 100 x 150 mm
Weight of the device:	900 g
Scope of delivery:	device in wooden case with test plate and certificate

