

## Portable MOISTURE Meters for PAPER & BOARD

Portable moisture meters for Paper and Board in rolls and stacked in reams



**DM4A Digital**  
**Paper and Paperboard**

- Range 0-100 % H<sub>2</sub>O (adjustable)
- Resolution: 0,1 %
- Measuring depth: 30 mm
- Storage for 100 moisture values

OPTIONAL:

**Software & cable RS-232**



**DM7 Digital**  
**Corrugated Board**  
**Paper Core**

- Rango 0-100 % H<sub>2</sub>O (ajustable)
- Resolución de medida: 0,1 %
- Measuring depth: 30 mm
- Storage for 100 moisture values

OPTIONAL:

**Software & cable RS-232**



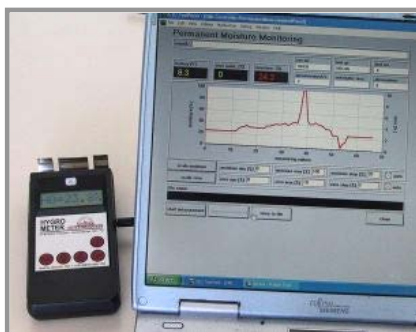
**AD4A Analógico y Digital**  
**Paper and Paperboard**

- Scale: 0-100 % H<sub>2</sub>O (adjustable)
- Measuring depth: 30 mm
- Serial PC interface

OPTIONAL:

**AD4A –S Software +Cable**

- Ability to connect external sensors / datalogger of Temperature – Relative Humidity – Dewpoint...

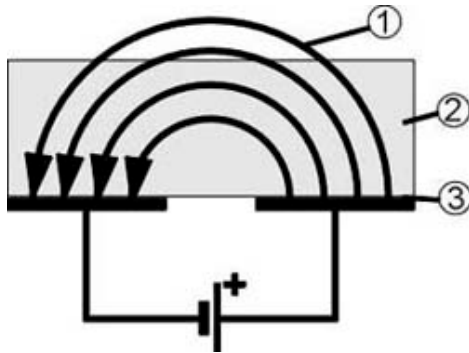


OPTIONAL:

**Software & cable RS-232**

### MOISTURE METERS:

- Instantaneous reading
- Contact measure
- Non-destructive method (capacitive)
- Controlled by microprocessor
- The Moisture Meters work with a standard 9 V block battery



(1) Field lines

(2) Material to be measured

(3) Plate capacitor

## CAPACITIVE MEASURING PRINCIPLE

This is the most cost effective measuring principle to measure the moisture without damaging the material. The meter are working in accordance with the principle of an opened plate capacitor. The capacity of the capacitor depends on the material-(dielectric)-constant (DC) of the material in between the plates. Compared with air, for example (DC = 1) water has got a very high dielectric-constant (DC ~ 80). The water content of a wet material can therefore be determined by determining the dielectric constant of this material. The measurements are influenced through differences in the material densities.

### Digital MOISTURE METER DM4A - for Paper & Cardboard Digital hand held instrument with capacitive measuring principle

Non-destructive measurements - done in seconds- just press it on the material and read off the average moisture content till a depth of approx. 30 mm

- Measuring range 2 - 20 % (H<sub>2</sub>O) – Adjustable
- Resolution: 0,1 %
- Storage for 100 moisture values
- Automatic calculation of maximum, average and minimum value
- Material group setting by means of a membrane-type keypad
- the adjusted material group can always be seen in the display
- Microprocessor controlled measuring with automatic zero point correction
- Up to 10 customer specific linearization curves with 8 points each possible
- Interface RS-232
- Dimension: 200 x 80 x 40 mm approx.
- Weight: 250 g. approx.

**OPTIONAL:** Software DMI-Controller + Cable Interface RS-232

The Moisture Meter can be calibrated by means of the Modules of Calibration PE05 and PE30

### Analogue MOISTURE METER AD4A – for paper and cardboard Analogue hand held meter with capacitive measuring principle

- Measuring Scale: 0 - 100 % (H<sub>2</sub>O) (Adjustable)
- Measuring depth: 30 mm
- Big clearly readable analogue display
- Change of category, change of status of instantaneous measurement
- Measurement controlled by microprocessor with automatic zero point correction
- Specially good detection of different moisture levels, p.e. Humidity changes in paper reels are instantaneously displayed.
- Dimensions: 200 x 80 x 40 mm

The Moisture Meter can be calibrated by means of the Module of Calibration PE05 and PE30

### Digital MOISTURE METER Mod DM7-AL for Corrugated Cardboard an Paper Core

Not-destructive moisture measurements in seconds.

- Measuring range 0 - 99,9 % (H<sub>2</sub>O)
- Resolution: 0,1 %
- Measuring depth: 10 mm
- Storage for 100 moisture values
- Automatic calculation of maximum, average and minimum value
- Interface RS-232
- Dimensions: 180 x 80 x 35 mm approx.
- Weight: 430 g. approx.

**OPTIONAL:** Software DMI-Controller + Cable Interface RS-232

Doc. : MOISTURE-METERS-1-CAT-I-R2