

## Moisture Meter (Digital Type)

### Model: MTE

Electronic Moisture tester is an electrical resistance type digital moisture meter. It calculates on the basis of mass of water / mass of solids. Since the electrical conductivity of paper is considerably effected not only by its moisture content, but also by the paper temperature and various substances contained in the paper, it is necessary to take these influences into consideration in the design of the moisture meters to ensure accurate readings.

The hand closes naturally around the ergonomic form of the housing so that the pins on the end of instrument can be pressed into the material to be measured. The thin pins make it easy to measure the moisture content of paper, paperboard and corrugated board up to maximum thickness of 25 mm.

### Effect of moisture on properties:

- Higher GSM and lower Bursting Strength due to higher moisture.
- Tensile Strength decreases with increasing % RH. The strength of bonds between fibers is reduced.
- Elmendorf Tear Strength increases with increasing % RH. This is because fibers are more likely to pull out of the structure due to reduced bonding strength. More work needs to be done to complete the tear.
- Tensile Stiffness decreases with increasing % RH.

### Applications:

- Paper
- Paperboard
- Corrugated Board

### Specifications:

- Measuring range : 5 to 20 %
- Power supply : 9 V dry cell or chargeable battery.

### Features :

- Handy, quick pocket size moisture meter for speedy single or series measurement.
- Completely automatic instrument setting.
- No separate electrodes or leads required.
- Also suitable to measure and gypsum & mixed plaster.

### Weight:

- Net Weight: 130 grams.
- Gross Weight: 150 grams.



### Dimensions:

- Depth: 35 mm
- Height: 200 mm
- Width: 35 mm