

## Elcometer 7400 Compact Moisture Meter

The natural feel of the Elcometer 7400 moisture meter makes it easy to use, allowing the pins on the end of the instrument to be pressed into the material to be measured.

The thin pins allow easy measurement of the moisture content of sawn timber, chipboard and fibreboard materials up to a maximum thickness of 25mm (0.98") as well as normal gypsum and mixed plaster.

- Completely automatic instrument setting
- No separate electrodes or leads required
- Handy, quick and pocket-sized for fast measurements
- Correction for two groups of wood species
- Measurement of plaster moisture content with a direct readout in percentage of dry weight
- The Elcometer Moisture Meter uses the conductivity measurement method



### Types of Moisture Meters

On porous materials such as concrete, plaster, brick, wood, the moisture content of the substrate should be measured, as the presence of moisture within a material will result in poor adhesion, premature coating failure and poor appearance.

It is not sufficient to simply ensure that the surface is dry as often the surface of the substrate is the driest point – due to evaporation. It is important to establish the moisture content within the substrate itself.

When powder coating wooden panels, for example, if the wood (or mdf) has too high a moisture content, as the panel passes through the oven, the moisture is heated, generating steam – causing significant coating finish issues.

Applying a coating to a concrete floor which is too damp can cause premature adhesion failure. Moisture meters have been developed to specifically determine the level of moisture in a substrate and come in two forms:

**Pin-type moisture meters:** Invasive pins are pushed firmly into the surface of the substrate being measured and by measuring the electrical resistance between the pin electrodes provide the percentage moisture content (%MC) in the substrate.

**Pinless, contact-type moisture meters:** Whilst pinless meters typically measure moisture content faster and are non destructive they do require a relatively flat surface because the sensors are mounted on the base of the gauge making them ideal for concrete.

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## Technical Specification

Part Number	Description
<b>K0007400M018</b>	Elcometer 7400 Compact Moisture Meter
Measuring Range	Large 3-digit LCD readout Wood 5 to 20% moisture content for wood with correction for two groups of wood species.Plaster 0.3 to 3.5% moisture content for plaster
Substrate Type	Sawn timber, chipboard, fibreboard, gypsum, plaster
Dimensions	190 x 75 x 30mm (7.4 x 3.0 x 1.0")
Weight	180g (6.35oz)
Power Supply	9V dry cell or rechargeable battery (6F22 (PP3) type)
Packing List	Elcometer 7400 Compact Moisture Meter, 9V PP3 battery, spare pins, protective cap and operating instructions